STOVAX

Fire Your Imagination

Riva Studio

Inset Convector Cassette

Instructions for Use, Installation & Servicing

For use in GB & IE (Great Britain & Republic of Ireland).

This edition incorporates PM400 Issue 4 for the purposes of installation in Smoke Control Areas.

IMPORTANT

THE OUTER CASING, FRONT AND GLASS PANEL BECOME EXTREMELY HOT DURING OPERATION AND WILL RESULT IN SERIOUS INJURY AND BURNS IF TOUCHED. IT IS THEREFORE RECOMMENDED THAT A FIREGUARD COMPLYING WITH BS 8423:2002 IS USED IN THE PRESENCE OF YOUNG CHILDREN, THE ELDERLY OR INFIRM.

Do not attempt to burn rubbish in this appliance. Please read these Instructions carefully before installation or use.

Keep them in a safe place for future reference and when servicing the fire.

The commissioning sheet found on page 3 of these instructions should be completed by the Installer.

CE

PM274 Issue 14 (March 2015)

Contents

Riva Studio Cassette - Inset Convector

Covering the following models:

RVST-500/RVST-1HT/RVST-2HT/RVST-3HT

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To receive your Extended Warranty your Stovax appliance must have been purchased from our Expert Retailer Network and registered within one month of purchase or installation. Please note that all warranties are effective from the date of purchase. Any Stovax product purchased outside of our Extended Retailer Network, or not registered within the stated time will carry a standard 12 month warranty.

It is a condition of the Extended Warranty that the installation complies with the relevant Building Regulations and is carried out by a suitably trained and qualified individual (HETAS in the UK or equivalent in other countries) with the certificate of installation and the Commissioning Report on Page 3 completed and retained by the end user.

Full terms and conditions are detailed in the Warranty Statement on the Stovax website www.stovax.com. In the event of any conflict of information the wording on the website shall prevail.

Important Note: Should any problems be experienced with your product, claims must first be submitted to the Expert Retailer where the appliance was purchased from who will offer immediate assistance or contact Stovax on your behalf.

DESIGN PROTECTION
The Studio design, including it's frames and accessories, are protected by European Design Registration No. 001169338 0002 0008.

Appliance Commissioning Checklist

To assist us in any guarantee claim please complete the following information:-

Dealer appliance was purchased from:

Name:

Address:

Telephone number:

Essential information - MUST be completed:

Date Installed:

Model Description:

Serial Number:

Installation Engineer:

Company Name:

Address:

Telephone number:

Commissioning Checks - to be completed and signed:

Is flue system correct for the appliance:	YES ☐	NO ☐
Flue swept and soundness test complete:	YES ☐	NO ☐
Smoke test completed on installed appliance	YES ☐	NO ☐
Spillage test completed	YES ☐	NO ☐
Use of appliance and operation of controls explained	YES ☐	NO ☐
Clearance to combustible materials checked	YES ☐	NO ☐
Instruction book handed to customer	YES ☐	NO ☐
CO Alarm Fitted	YES ☐	NO ☐

Signature: ..... Print Name: .....

Getting Started

Welcome

Congratulations on purchasing your Stovax Riva Studio, if installed correctly Stovax hope it will give you many years of warmth and pleasure for which it was designed.

The purpose of this manual is to familiarise you with your stove, and give guidelines for its installation, operation and maintenance. If, after reading, you need further information, please do not hesitate to contact your Stovax retailer.

1. General Points

1.1 Before installation and/or use of this appliance please read these instructions fully and carefully to ensure that you have fully understood their requirements.

The appliance must be fitted by a registered installer*, or approved by your local building control officer.

1.2 All local regulations, including those referring to national and European Standards need to be complied with when installing the appliance.

1.3 Only use for domestic heating in accordance with these operating instructions.

1.4 You must burn only approved fuels. Do not use with liquid fuels or as an incinerator.

1.5 Appliance surfaces become very hot when in use. Use a suitable fireguard‡ if young children, elderly or infirm persons are present.
Stovax offer firescreens, sparkguards and hearthgate systems for protection. Your Stovax dealer can advise you about these products.

1.6 Do not place photographs, TV's, paintings, porcelain or other combustible items on the wall or near the appliance. Exposure to hot temperatures will cause damage. Do not place furniture or other items such as drying clothing closer than 1m from the front of this appliance.

WARNING: Extra fuel should not be stored on or next to the appliance. Only keep enough fuel for immediate use nearby and never leave the appliance unattended for long periods with any combustible material in close proximity.

1.7 Extractor fans or cooker hoods must not be placed in the same room or space as this can cause appliance to emit fumes into the room.

1.8 Do not obstruct inside or outside ventilation required for the safe use of this appliance.

‡In the U.K. these products must conform to the latest edition of BS 8423, Fireguards for use with solid fuel appliances.
If appliance is operating unattended they must conform to the latest edition of BS 3248

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1.9 Do not make unauthorised changes to the appliance.

1.10 The chimney must be swept at least once a year.
See Section 12.

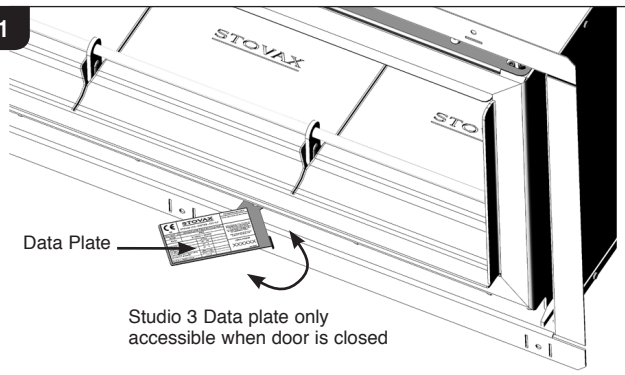
1.11 Do not connect, or share, the same flue or chimney system with another appliance.

SERIAL NUMBER

1.12 This number is required when ordering spare parts or making warranty claims.

It is found on the appliance data plate, see Diagram 1.

1



Triple Air Systems

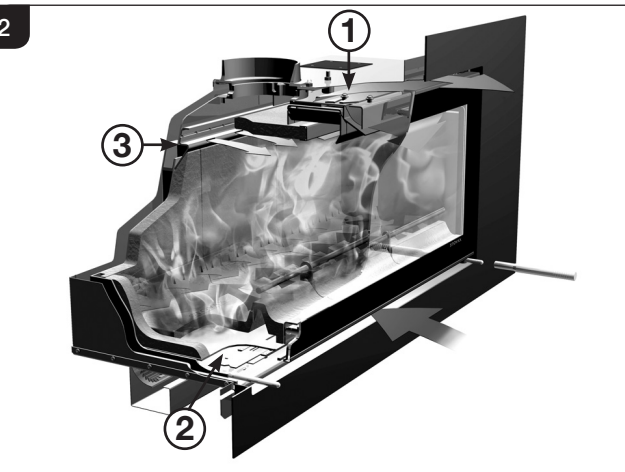
Several Stovax appliances have triple air systems providing cleaner burning, and greater efficiency and control,
See Diagram 2

1) **Airwash** - air drawn over the window cleans the glass. The source of Primary Combustion air when burning wood.

2) **Primary Air** - for use initially when establishing fires.

3) **Secondary Air** - Secondary air is preheated through a heat exchanger to combust unburned hydrocarbons, providing a cleaner and more efficient burn.

2

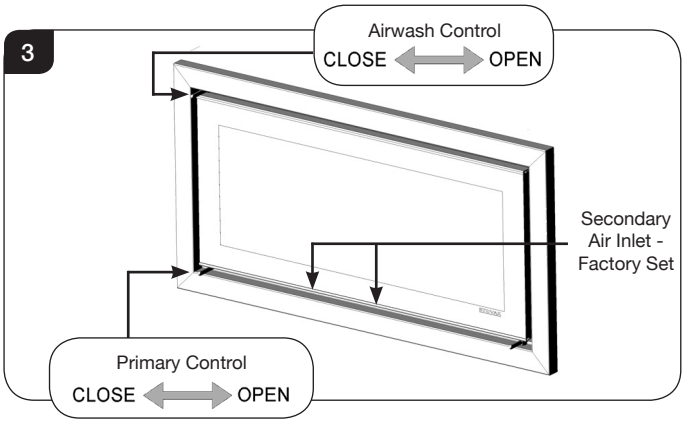


Airwash and Primary Air Controls Studio 500 1,2,3

1.13 Use a protective gloved hand to operate.

DO NOT OPERATE THE AIR CONTROLS WITH BARE HANDS

3



NOTE: The travel of the Airwash control and Primary control may be limited if the appliance has been set up to operate in a Smoke Control Area.

DOOR HANDLE

DO NOT OPEN THE DOOR WITH BARE HANDS

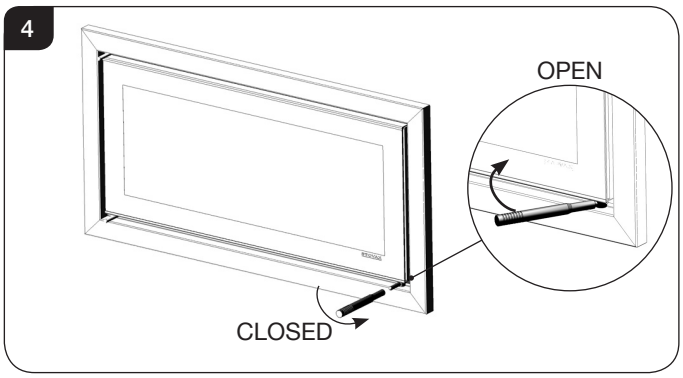
DO NOT OPEN THE DOORS WHEN THE FIREBOX IS FULL OF FLAMES - WAIT FOR THEM TO DIE DOWN.

Studio 500, 1 & 2

1.14 Use a protective gloved hand to operate.
Slide tool over knob to fit.

1.15 Move the slider to the left to open, see Diagram 4.

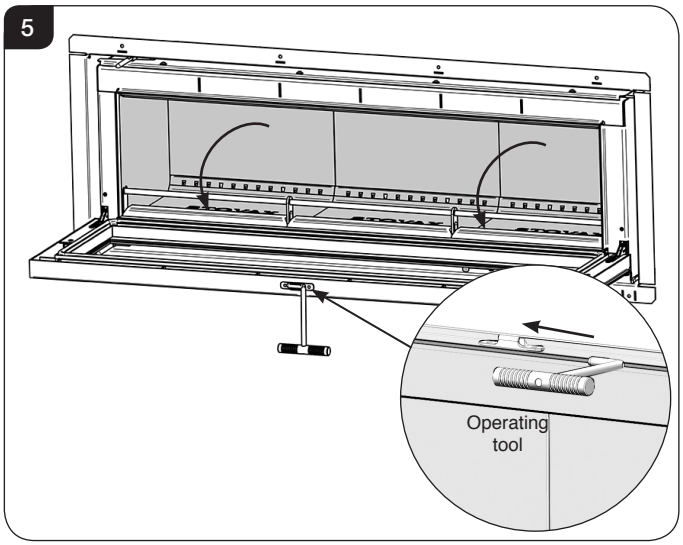
4



Studio 3

1.16 Engage tool in door as shown, see Diagram 5.
Pull door out and down to open.

5



User Instructions

WARNING

Properly installed, operated and maintained this appliance will not emit fumes into the room but occasional fumes from de-ashing and refuelling may occur.

Persistent fume emission is potentially dangerous and must not be tolerated.

If fume emission persists:

• Open doors and windows to ventilate the room.

• Leave the room.

• Allow fire to burn out or safely dispose of fuel from the appliance.

• Check for chimney blockage and clean if required.

• Do not attempt to relight until the cause of the emission has been identified and corrected.

• If necessary seek expert advice.

• All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. Because of this an electronic carbon monoxide detector conforming to the latest edition of BSEN50292 must be fitted in the same room as the appliance. The existence of an alarm must not be considered a substitute for ensuring regular servicing and maintenance of the appliance and chimney system.

IF THE ALARM SOUNDS FOLLOW THE INSTRUCTIONS GIVEN ABOVE.

2. Using the Appliance for the First Time

2.1 To allow the appliance to settle, and fixing glues and paint to fully cure, operate the appliance at a low temperature for first few days.

2.2 Do not touch the paint during the first period of use.

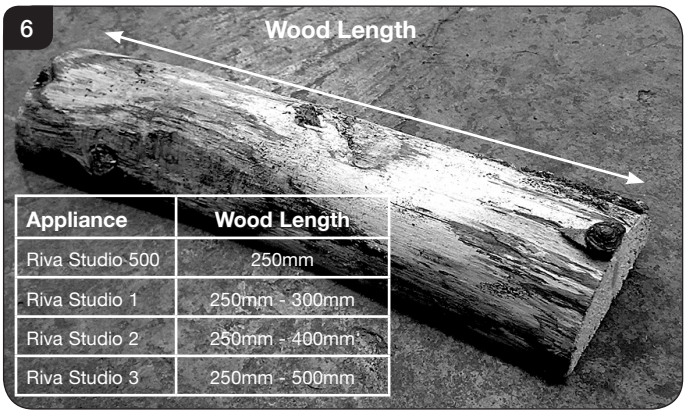
2.3 During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

2.4 Please be aware that, during use, rope seals may discolour. This is normal.

3. Recommended Fuels

3.1 **Wood Logs:**

Burn only seasoned timber with a moisture content of less than 20%. To ensure this allow cut wood to dry for 12 to 18 months.



Poor quality timber:
— Causes low combustion efficiency
— Produces harmful condensation
— Reduces effectiveness of the airwash and life of the appliance

Do not burn construction timber, painted, impregnated / treated wood, manufactured board products or pallet wood.

3.2 **Fuel consumption**.
As tested at nominal heat output to the requirements of EN 13229: 2001 for intermittent operation:

Description	Fuel Consumption
	Kg/hour Wood
Riva Studio 500	1.4
Riva Studio 1	1.6
Riva Studio 2	2.4
Riva Studio 3	3.6

A number of factors can affect the performance of the appliance. *See Troubleshooting Section* for details.

Fuel Overloading

The maximum amount of fuel specified in this manual should not be exceeded, overloading can cause excess smoke.

4. Smoke Control Kit

This section applies to the Riva Studio products listed:

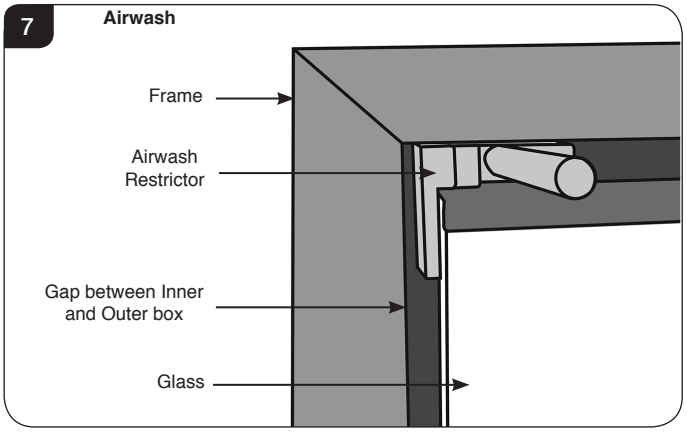
Product Code	Appliance
RVST-500	Riva Studio Cassette 500
RVST-1HT	Riva Studio Cassette 1
RVST-2HT	Riva Studio Cassette 2

4.1 The Studio models listed are supplied with a pre-fitted smoke control kit and have been independently tested to PD6434 making them exempt from the controls that generally apply in Smoke Control Areas.

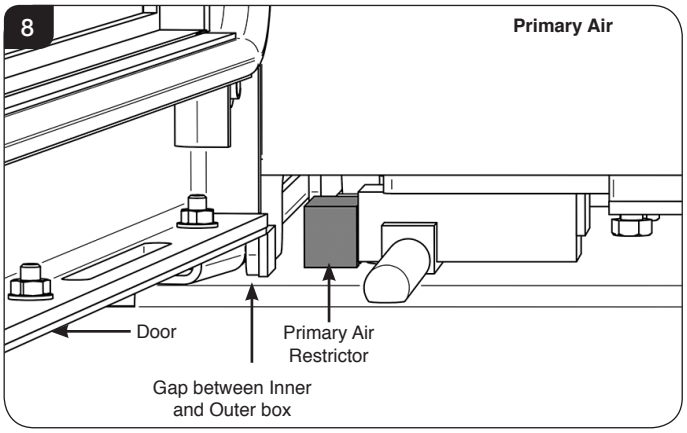
4.2 These models are suitable for use in a Smoke Control Area when burning wood and following the instructions for use specified in this manual but ONLY if the Smoke Kit has not been removed.

4.3 If fitted, the Smoke Control kit can be seen in the following locations, see Diagrams 7 & 8.

7



8



4.4 To meet the requirements of a Smoke Control Area the appliance MUST be operated correctly in order to minimise the amount of smoke produced.

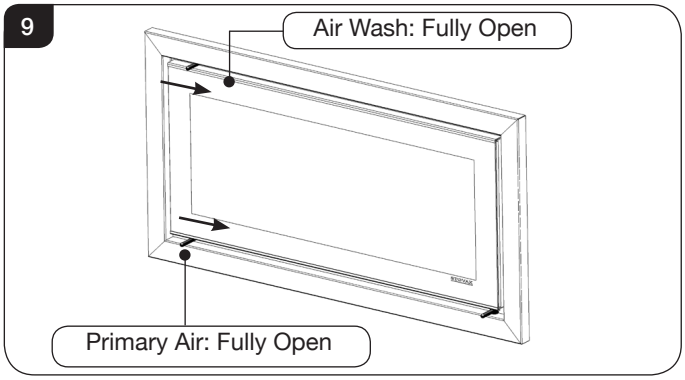
If these Studio models are installed outside of a Smoke Control Area then the Smoke Control kit can be removed to give more control over the lower burn rates.
Removing the kit should only be done by a suitably qualified installer and must be done at the time of installation.

These instructions must be left with the User.

5. Lighting the Appliance

5.1 For best results set air controls as shown, see Diagram 9.

9



5.2 Place firelighters or paper and dry kindling wood on the base bricks.

A successful fire initially requires plenty of kindling to establish a hot firebox and warm the chimney to aid flue performance.

5.3 Light the paper or firelighters, see Diagram 10.

5.4 Leave the door slightly open as the fire establishes and the glass warms to avoid build up of condensation.

10

5.5 Add larger pieces of wood.
Do not use full sized logs at this stage, build up gradually in size. Too many logs may smother the fire.

User Instructions

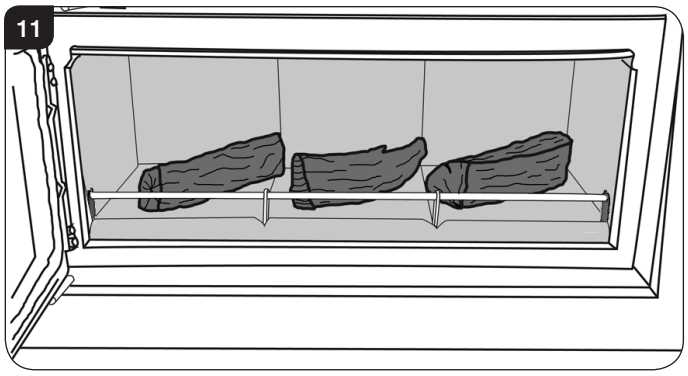
Fuel Loading:
These are wide appliances and the logs should be laid out in a single layer with gaps between, see Diagram 11.

Do not stack the logs on top of each other as this could effect the efficiency.
DO NOT OVERLOAD THE APPLIANCE AS THE HEAT OUTPUT WILL BE TOO HIGH.

Be sure to use split logs and not whole pieces of wood. Too much fuel in the firebox will cause the appliance to reach higher temperatures than intended.
This can damage the interior components of the fire.

Suggested Loads:
Studio 500 - 2/3 logs no bigger than 5" (127mm) diameter
Studio 1 & 2 - 3/4 logs no bigger than 5" (127mm) diameter
Studio 3 - 4/5 logs no bigger than 5" (127mm) diameter

11



5.6 Close the door and follow the instructions for Running the Appliance.
Do not run with the door slightly open except for initial lighting as this could cause over-firing and damage the appliance.

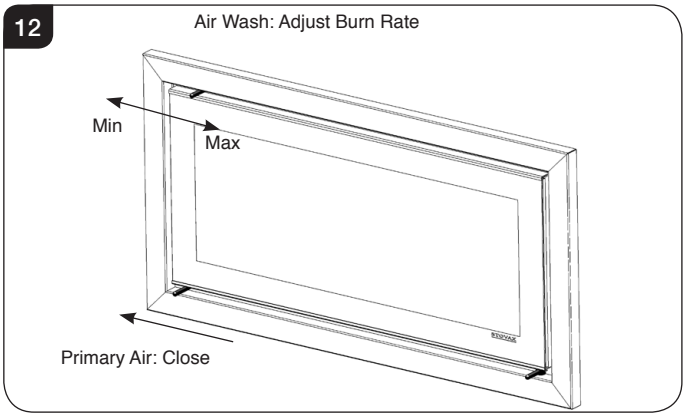
WARNING: DO NOT OPERATE THE APPLIANCE WITH THE PRIMARY AIR CONTROL OPEN FOR LONG PERIODS OF TIME AS THIS COULD CAUSE OVER-FIRING AND MAY CAUSE PERMANENT DAMAGE.

6. Running the Appliance

Burning Wood

6.1 Close the **Primary air control** and use the **Airwash** to control the burn rate when appliance is at operating temperature, see Diagram 12.

12



Wood burns best on a bed of ash (approx. 25mm (1") deep).

6.2 Do not burn large amounts of fuel with the **Airwash Control** closed for long periods of time. This reduces the glass cleaning effect of the Airwash and causes tars and creosotes to build-up in the appliance and flue system.

6.3 When in use, burning the appliance at a high temperature for a short period reduces tars and creosotes.
WARNING: DO NOT OPERATE THE APPLIANCE WITH THE PRIMARY AIR CONTROL OPEN FOR LONG PERIODS OF TIME AS THIS COULD CAUSE OVER-FIRING AND MAY CAUSE PERMANENT DAMAGE.

Experience establishes settings to suit personal preference.

Refuelling

6.4 Open the Primary Air and Airwash controls fully.

Rake the embers evenly over the firebed to establish a glowing firebed. If the firebed is low add a small amount of kindling wood to help re-establish the fire.

6.5 **Do not refuel when a large amount of flames are in the firebox as this could cause smoke or flames to spill into the room.**

6.6 **Close the doors immediately after refuelling.**

These are wide appliances and the logs should be laid out in a single layer with gaps between, see Diagram 11.

Do not stack the logs on top of each other as this could effect the efficiency.
DO NOT OVERLOAD THE APPLIANCE AS TOO MUCH FUEL COULD CAUSE IT TO OVER-FIRE.

6.7 After refuelling:
Burn the new logs at high output for a few minutes before closing the Primary Air control. Adjust the burn rate using the Airwash control.

Do not close the air controls until the fire is burning well.

6.8 **Do not** burn large amounts of fuel with the **Airwash control** closed for long periods of time. This reduces the glass cleaning effect, causes tars and creosotes to build-up in the appliance and flue system and will produce excessive amounts of smoke.

6.9 When running the appliance **refuel little and often for clean, efficient burning.**

A bright and clean firebox indicates the appliance is burning well.

6.10 **Do not burn continuously with the door open.**

Shut Down

6.11 If there is still burning fuel in the firebox, Stovax do not recommend shutting down the air controls completely unless there is a chimney fire in progress (see Section 9 for advice). Closing the controls during the burning process will cause poor combustion and could lead to a build up of gasses that could ignite dangerously.

6.12 Always have enough air entering the stove to maintain some flame within the firebox.

6.13 If it is necessary to shut down the appliance then run on a high setting until all of the fuel has been burnt before closing the air controls.

7. Extended Burning

7.1 It is possible to get the appliance to burn for extended periods of time. In order to do this:

— De-ash prior to final refuelling.

— Burn new fuel at a high temperature for a few minutes before closing the **Primary Air Control.**

— Set Airwash to low combustion settings.
This will gradually blacken the glass but it will clear when operated at a high temperature for a short period.

NOTE: An appliance without a Smoke Control kit fitted will burn longer than an appliance the complies to the restrictions of a Smoke Control Area, see Section 4.

8. Ash Removal

8.1 Wood burns best on a bed of ash
Do not allow ash to build up in the appliance as it will not burn properly and may cause damage.

8.2 Open door, see Diagrams 4&5 on page 5.
Remove ash with a small shovel (available from Stovax). Take care not to damage the ceramic lining of the appliance. Do not use sharp pointed pokers.

8.3 Remove ash carefully - heat can remain long after use.

8.4 Carefully place the ash into a Stovax Ash Caddy (Stovax Part No. 4227).

8.5 **Do not place hot ash in a container made from plastic or any other combustible material.**

9. Over-Firing

9.1 Do not over-fill with fuel or run at high temperatures for long periods or over-firing can occur.
DO NOT OPERATE THE APPLIANCE WITH THE PRIMARY AIR CONTROL OPEN FOR LONG PERIODS OF TIME AS THIS COULD CAUSE OVER-FIRING AND MAY CAUSE PERMANENT DAMAGE.

9.2 **Over-firing can cause permanent damage to the appliance and invalid the product warranty.**

10. Chimney Fire

10.1 **If a chimney fire occurs:**

— **Shut all air controls immediately.**

— **Evacuate the building.**

— **Call the fire brigade.**

— **Do not re-enter the building until it is confirmed safe.**

10.2 **Do not use the appliance after a chimney fire until:**
a) **It has been inspected by a registered installer*, confirming the appliance is safe to use.**

b) The chimney system has been inspected and swept by a chimney sweep, confirming the system is structurally sound and free from obstruction*.

c) **It is repaired as required before re-use.** Use only genuine Stovax replacement parts to keep your appliance in safe, efficient working order.

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Care & Maintenance

11. General Cleaning

11.1 Clean and inspect the appliance regularly, especially in periods of heavy use. Regular cleaning and maintenance will help give many years of safe use.

11.2 **Allow appliance to cool thoroughly to avoid risk of burns.**

11.3 Clean regularly, according to level of use.

11.4 Remove the ash completely (see *User Instructions, Section 8*).

11.5 Check internal components for damage - grates, bricks, baffles - and for obvious build up of soot, ash or debris above the flue baffle(s) (these can be found in the upper part of the firebox). Use a torch if necessary.

11.6 If there are any signs of a build up of debris above the flue baffle(s) either:

— Arrange for the chimney to be swept (see *User Instructions, Section 13*).

— Remove the baffles and clear the debris (see *Pre-Installation Sections).*

11.7 To refresh painted finishes a touch up spray is available. Contact your Stovax retailer quoting the serial number found on the appliance data badge.

Do not use aerosol sprays near an operating appliance.

12. Cleaning Glass

12.1 Keep the glass clean with correct use of the Airwash system and good quality fuel.

12.2 Sometimes additional cleaning may be required. Before undertaking this operation allow appliance to cool fully. Do not clean hot glass.

12.3 **On appliances with printed glass do not use cleaning agents that have a high alkaline or acidic content, for example Stovax Gel Cleaner, these are aggressive cleaning agents designed to be used with heavily stained clear glass. On printed glass surfaces, use Stovax Glass Cleaner (Stovax No.4103) which is better formulated for this application.**

12.4 Before applying a cleaning agent remove any dust and loose soot with a damp cloth.

12.5 Use an appropriate glass cleaner. Apply the cleaning fluid to a cloth before rubbing onto the glass.
Apply carefully and do not apply excessively. Try to prevent any run off which could soak into the rope seals around the edge of the glass.
Soot can also contain acidic particles that can cause corrosive damage to printed glass.

12.6 Remove dirt with a moist cloth and buff dry.

12.7 **Some types of wood can cause a white residue to form on the glass.**
If this occurs it should be cleaned off at least once a week during periods of heavy usage.
If the liquid cleaning agents recommended do not remove this residue Stovax offer a dry cleaning pad which will help remove heavy stains.

12.8 Before relighting the appliance ensure the glass is fully dried. If the rope seal has absorbed excess cleaning agent it is advisable to replace the rope as soon as possible to preserve the printed finish of the glass.

13. Chimney Sweeping

13.1 To maintain safe and efficient use of the appliance, the chimney/flue must be inspected and swept at least once a year by a qualified chimney sweep*.

If the appliance is used continuously throughout the year, or it is used to burn wood, more frequent sweeping is recommended.

The best time to have the chimney swept is at the start of the heating season.

13.2 The chimney, any connecting flue pipe and the appliance flue ways, if incorporated, must be regularly cleaned.

13.3 Ensure adequate access for cleaning where it is not possible to sweep through the chimney.

13.4 If the chimney is believed to have previously served an open fire it must be swept a second time within a month of regular use after installation.

14. Care Of Stove

Stovax has a range of cleaning and maintenance products and accessories to keep your appliance in good working order. Your Stovax retailer can advise you on suitable items for your stove and provide genuine spare parts such as replacement glass, door sealing rope and firebricks. View the extensive range at www.stovax.com by clicking on *Accessories.* In addition, an annual service by a competent engineer is recommended to keep your stove in the best possible condition.

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15. Seasonal Use

15.1 Clean and service the appliance if not used during the warmer months, as detailed in the *Maintenance and Servicing* section.

15.2 Set the air controls to 50% to keep the appliance ventilated and stop the build-up of any moisture inside.

15.3 Before re-lighting the appliance:

—Remove the baffles.

—Clear any debris that may have accumulated.

—Check the flue is clear of any blockages.

16. Optional Extras

Fan Kit

16.1 This appliance can be fitted with an optional convection fan kit. The fan must be fitted at the time of installation. For installation and operating procedures you must refer to the instructions supplied with the fan kit.

Outside Air Kit

16.2 This appliance can be fitted with an optional kit to help bring air directly into the appliance from outside. The For installation and operating procedures you must refer to the instructions supplied with the Outside Air kit.

Warm Air Ducting Kit

16.3 This appliance can be fitted with an optional Warm Air Ducting kit to help circulate warm air to other room in the house.
This operation may require additional ventilation in order to comply with building regulations and a qualified installer should be consulted before fitting.
The Ducting kit must be fitted at the time of installation. For installation and operating procedures you must refer to the instructions supplied with the Warm Air Ducting kit.

Troubleshooting

Troubleshooting

	Symptom	Cause	Solution
OPERATION	Difficulty starting the fire and keeping it burning well	Low flue draught	Consult your installer
		Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
	Poor burning control	High flue draught	Consult your installer
	Short burn times	Wet wood (over 20% moisture) Insufficient amount of fuel - Refer to the table in section 3	Use dry seasoned wood (less than 20% moisture content)
	Excessive heat output (Over firing)	High flue draught	Consult your installer
		Air control left fully open	Close air control to reduce output
	Low heat output	Low flue draught	Consult your installer for advice on suitable flue system
		Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
	Excessive fuel consumption	High flue draught	Consult your installer for advice on suitable flue system
		Over dry wood	Do not use constructional timber or pallet wood
SMOKE EMISSIONS	Smoke and small flames	Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
	Intermittent smoke spillage into room when appliance door is opened	Low flue draught	Consult your installer for advice on suitable flue system
		Incorrect additional ventilation air in to building	Consult your installer
	Continuous smoke spillage into room when appliance in use	Blocked flue	Open all doors and windows to ventilate the room. Allow the fire to burn out. Check flue for blockage. Do not re-use until cause of spillage is identified. Consult your installer for advice
	Blue/grey smoke from chimney	Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
ADVERSE WEATHER	Windy days, intermittent smoke spillage into room when appliance door is opened	Down draught in flue caused by air turbulence caused by nearby buildings or trees	Weather conditions combined with the flue terminal position can have an effect on the appliance performance. Consult your installer
	Calm days, intermittent smoke spillage into room when appliance door is opened	Over size flue giving poor flue draught	Weather conditions combined with the flue terminal position can have an effect on the appliance performance. Consult your installer
	Damp/Rainy days lighting and burning problems	Flue temperature low / rain water inside flue	Use good quality wood to start and maintain the fire, consult your installer to fit a rain cowl
	Wind noise from the air control	High flue draught	Consult your installer for advice on suitable flue system

Troubleshooting

THE APPLIANCE

Symptom	Cause	Solution
Rapid creosote build-up in the chimney	Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content). Operate at a high temperature for short periods each time the appliance is used to avoid large build-ups of tars and creosotes
Tar coming from flue joints	Appliance operated at continuous low temperatures	Operate at a high temperature for short periods each time the appliance is used to avoid large build-ups of tars and creosotes. See user instructions for correct use of air control
	Using poor quality wood	Use dry seasoned wood (less than 20% moisture content)
Strong pungent smell after the appliance is lit	Appliance operated at continuous low output	Operate at high output for short periods. See user instructions for correct use of air control
	Using poor quality wood	Use dry seasoned wood (less than 20% moisture content)
Wind noise from the air control	High flue draught	Consult your installer for advice on suitable flue system
Dirty firebricks	Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
Dirty glass	Wet wood (over 20% moisture)	Use dry seasoned wood (less than 20% moisture content)
Glass blackening	Using poor quality wood	Use dry seasoned wood (less than 20% moisture content)
	Low flue draught	Consult your installer for advice on suitable flue system
	Incorrect use of air control	See user instructions for correct use of air control
	Appliance operated at continuous low temperatures	Operate at high output for short periods. See user instructions for correct use of air control

FLUES

The flue system has two main functions:

- To safely remove the smoke, fumes and combustion gases from the building.
- To provide a sufficient amount of flue draught (suction) in the appliance to ensure the fire keeps burning.

The flue draught is caused by rising hot gases when the appliance is lit.

Tar and creosote are a major cause of chimney fires. If the appliance experiences problems with tar build up consult a chimney sweep before continued use of the appliance.

For advise on the correction of persistent flue problems consult a qualified heating engineer before continuing to use the appliance.

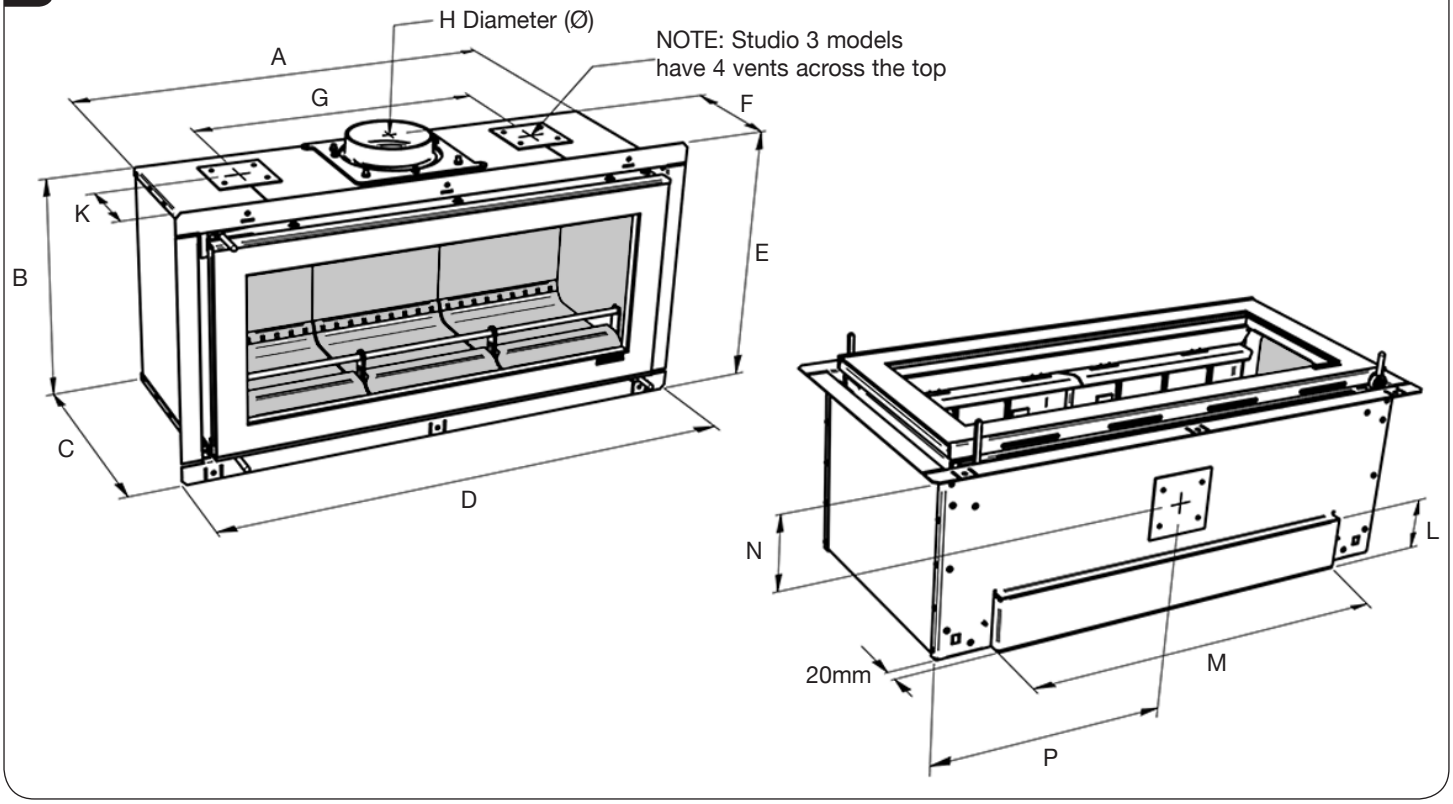
Installation Checklist

Please Note

This section is intended to give an overview of the product performance and essential information required for installing the appliance.
It is intended for qualified engineers who are already familiar with Stovax products.
For full details and expanded information please see the Technical Appendix at the back of this manual.

1. Riva Studio Dimensions

1



Description	Model	A	B	C	D	E	F	G	H	K	L	M	N	P
Riva Studio 500	RVST500	552	415	350	628	497	246	380	153 (6")	240	96	350	276	155
Riva Studio 1	RVST-1HT	745	415	350	821	497	246	480	153 (6")	240	96	592	372.5	155
Riva Studio 2	RVST-2HT	950	440	350	1019	522	246	610	153 (6")	240	105	735	475	150
Riva Studio 3	RVST-3HT	1332	450	393	1406	532	291	610 1010*	153 (6")	275	105	735	766	150

All dimensions in mm. (25.4 mm = 1")

Installation Checklist

2. Essential Information

GENERAL							
Model: Riva Studio 500 Riva Studio 1 Riva Studio 2 Riva Studio 3			**Riva Studio 500**	**Riva Studio 1**	**Riva Studio 2**	**Riva Studio 3**
Nominal Heat Output	Wood	kW	4.9	5.0	8.0	11.0
Efficiency	Wood	%	80.0	74.6	75.3	75.6
CO @ 13% O_2	Wood	%	0.290	0.230	0.180	0.247
Weight		Kg	85	76	83	120
Recommended Fuels	Wood	Seasoned Wood (less than 20% moisture content)				

As tested to the requirements of EN 13229 for intermittent operation

FLUES							
Flue/Chimney Size	With Liner of Factory made system (diameter) installed in accordance with manufacturers instructions	mm	153	153	153	153
		inch	6	6	6	6
Flue/Chimney minimum height	All products	m	4.5	4.5	4.5	4.5
		feet	15	15	15	15
Flue Draught	Min	mm Wg	1.0	1.0	1.0	1.0
	Nominal		1.5	1.5	1.5	1.5
	Max		2.0	2.0	2.0	2.0
Flue Gas Mass Flow	Wood	g/s	3.9	5.5	6.6	8.6
Flue Gas Temperature at Spigot/Socket	Wood	°C	265	301	346	352
Flue Outlet Size (Top Option)		mm	153	153	153	153
		inch	6	6	6	6

European Min Spec for Chimney Flue - T400 N2 D 3 G50

VENTILATION	**A) Traditionally Built Homes** • Where leakage is greater than 5m^3/hour/m^2. • Ventilation normally required = 550mm^2 per kW output over 5kW		**B) Modern Construction Homes** • Where leakage is less than 5m^3/hour/m^2. • Ventilation normally required = 550mm^2 per kW			
A	Additional Ventilation	mm2	None	None	1650	3300
		cm2	None	None	16.5	33
		in2	None	None	2.6	5.3
B	Additional Ventilation	mm2	2695	2750	4400	6050
		cm2	26.9	27.5	44	60.5
		in2	4.35	4.44	7.1	9.76

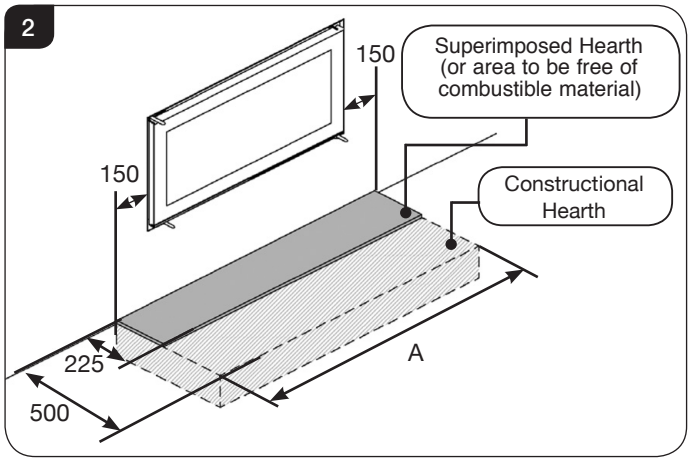
For full technical details on ventilation see Technical Appendix on Page 41

‡In the U.K. Additional information covering the installation of the appliance may be found in the following British Standards: BS EN 15287, BS6999, BS8303.

Installation Checklist

3. Minimum Dimensions - Hearth

2

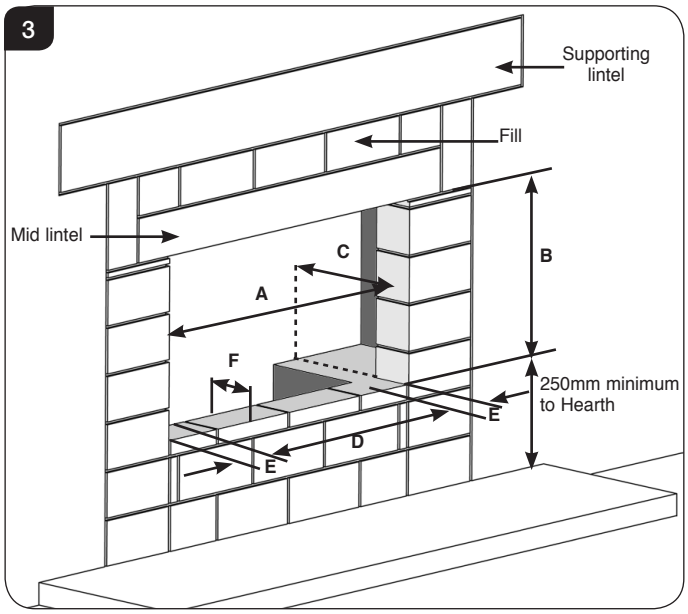


Dimension	A
Riva Studio 500	860
Riva Studio 1	1050
Riva Studio 2	1250
Riva Studio 3	1650

4. Minimum Builders Opening

To make installation easier make the opening slightly larger than the minimum requirements where possible.

3

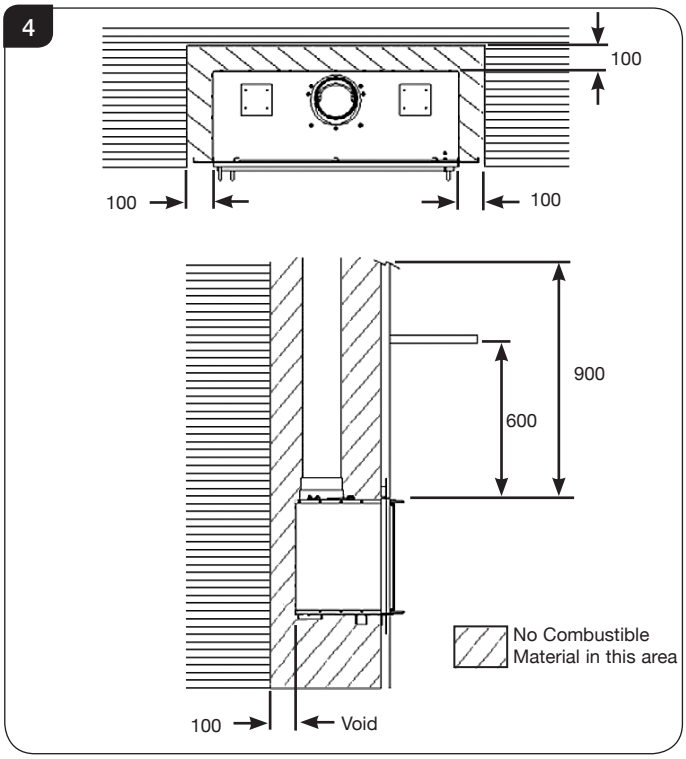


Dimension	A	B	C	D	E	F
Studio 500	575	435	360	425	75	100
Studio 1	765	435	360	615	75	100
Studio 2	970	460	360	820	75	100
Studio 3	1352	475	465	1202	75	100

5. Clearances to combustibles

When fitting the appliance use the minimum clearances between any point of the appliance and any combustible material.

4



6. Smoke Control Kit

This section applies to the Riva Studio products listed:

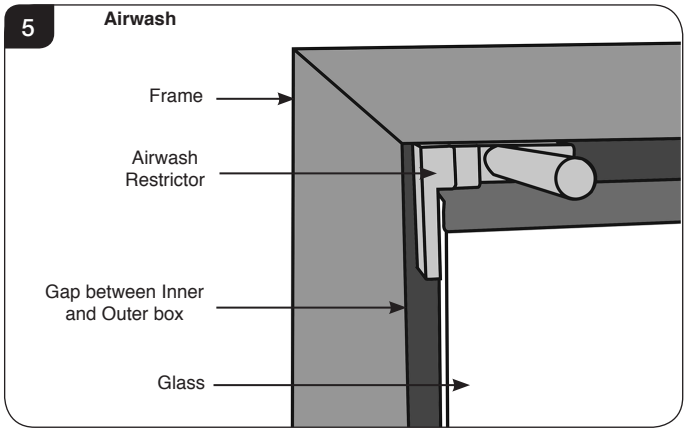
Product Code	Appliance
RVST-500	Riva Studio Cassette 500
RVST-1HT	Riva Studio Cassette 1
RVST-2HT	Riva Studio Cassette 2

6.1 The Studio models listed are supplied with a pre-fitted smoke control kit and have been independently tested to PD6434 making them exempt from the controls that generally apply in Smoke Control Areas.

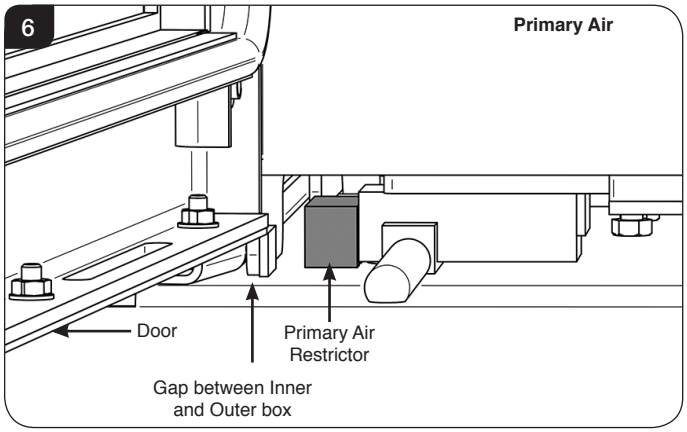
6.2 These models are suitable for use in a Smoke Control Area when burning wood and following the instructions for use specified in this manual but ONLY if the Smoke Kit has not been removed.

6.3 If fitted, the Smoke Control kit can be seen in the following locations, see Diagrams 5 & 6.

5 **Airwash**



6 **Primary Air**



6.4 To meet the requirements of a Smoke Control Area the appliance MUST be operated correctly in order to minimise the amount of smoke produced.

If these Studio models are installed outside of a Smoke Control Area then the Smoke Control kit can be removed to give more control over the lower burn rates.
Removing the kit should only be done by a suitably qualified installer and must be done at the time of installation.

These instructions must be left with the User.

7. Optional Extras

The Studio has a number of optional extras to enhance the performance of the appliance. These need to be considered when planning the installation.

Fan Kit

7.1 This appliance can be fitted with an optional convection fan kit. The fan must be fitted at the time of installation. For installation and operating procedures you must refer to the instructions supplied with the fan kit.

Warm Air Ducting Kit

7.2 This appliance can be fitted with an optional Warm Air Ducting kit to help circulate warm air to other room in the house. This operation may require additional ventilation in order to comply with building regulations and a qualified installer should be consulted before fitting.
The Ducting kit must be fitted at the time of installation. For installation and operating procedures you must refer to the instructions supplied with the Warm Air Ducting kit.

Outside Air Kit

7.3 This appliance can be fitted with an optional kit to help bring air directly into the appliance from outside. The For installation and operating procedures you must refer to the instructions supplied with the Outside Air kit.

Pre-Installation Instructions

1. General

1.1 To make the installation of the appliance easier it is best to remove the internal components before fitting into the builders opening/studwork.

1.2 For the best results removing the following components as set out below.

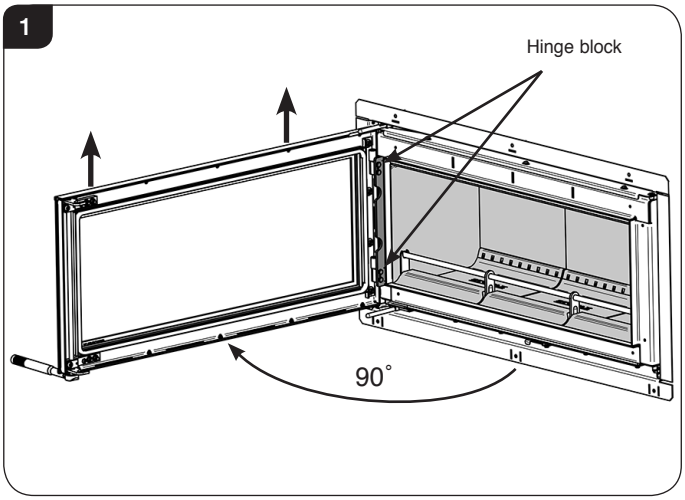
2. Removal of the Door

Studio 500, 1 & 2

Before removing the door it is recommended to protect the left edge from damage using masking tape.

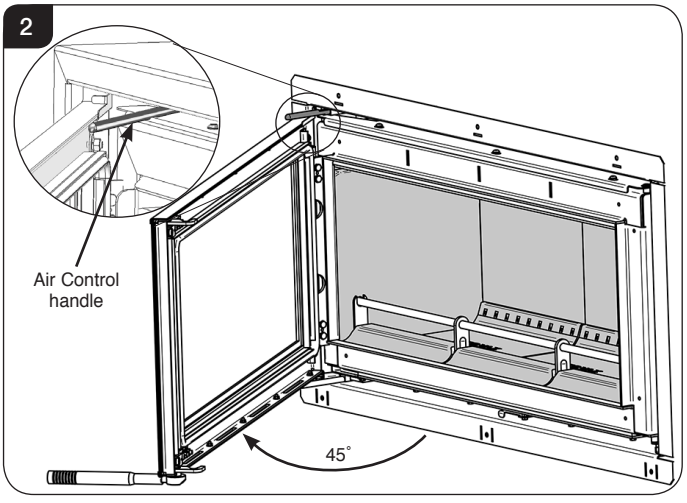
2.1 Open the door approximately 90˚, see Diagram 1.

1



2.2 Move the Air Control to the far right, see Diagram 2.

2



2.3 Lift the door vertically to remove from the hinge block, see Diagram 1.

2.4 Close the door 45˚, ensuring the Air Control handle sits inside the channel in the top of the door (see Diagram 2) and carefully manoeuvre the door clear of the hinge mechanism.

2.5 Lie the door face down on a soft flat surface to protect the paint work and glass.

2.6 Reverse the procedure to re-fit the door.

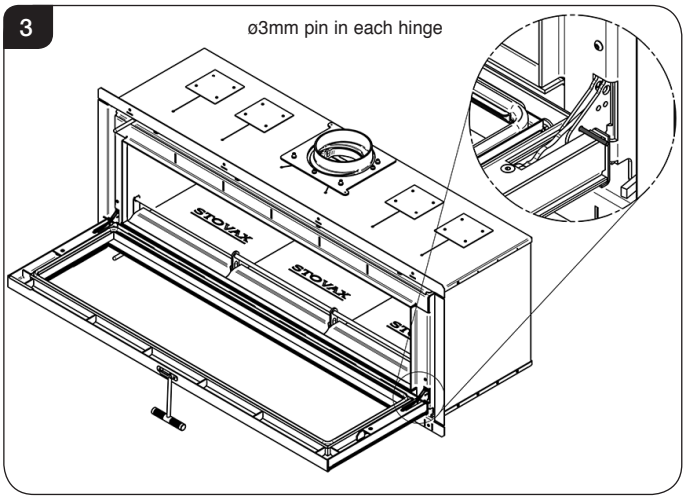
Studio 3

This will require 2 people.

2.7 Open the door fully (see User Instructions, page 5).

2.8 Lock the hinges in position using a ø3mm pin as shown in Diagram 3.

3



2.9 Raise the door vertically at the front.

2.10 Lower the door approximately 5mm and pull away from the appliance.

2.11 Lie the door face down on a soft flat surface to protect the paint work and glass.

2.12 Reverse the procedure to refit the door.

3. Removal of Internal Components

In the firebox of the Studio are several loose items including:

- A box containing:
  Baffle Bricks
  Firebricks
  Bag containing Instruction Manual, Warranty & Door Tool,
  Log Guard End Supports
- Log Guard
- Front Baffle Support

3.1 Remove these carefully and put them safely to one side. They can be fitted after the appliance has been installed, see Installation Section.

4. Removal of the Top Baffles

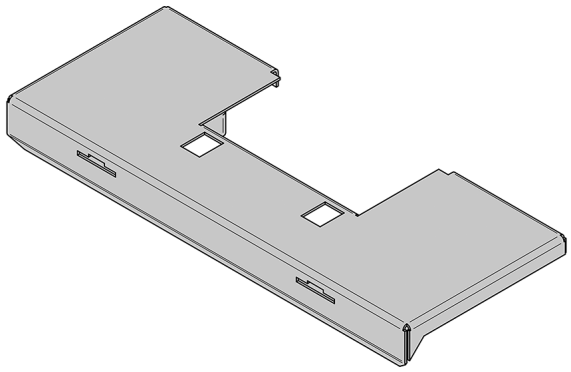
The appliance is fitted with baffles in the top of the firebox to maintain efficient combustion.
Studio 500 and Studio 1 have 1 baffle.
Studio 2 has 2 baffles.
Studio 3 has 3 baffles.

4.1 Once the loose internal components have been removed it is possible to remove the metal Top Baffles.

Allow the appliance to cool fully before removing the baffle system.

Studio 500 & Studio 1

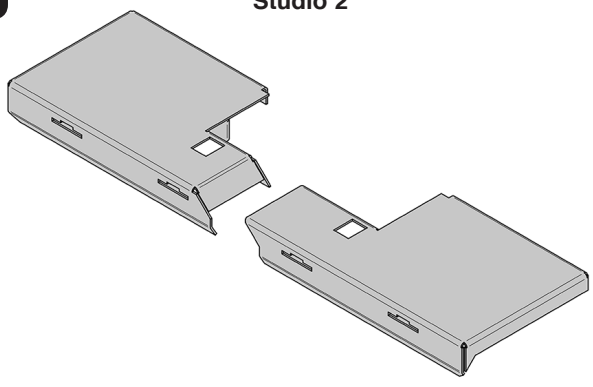
4 **Studio 1 & 500**



These models have a single section baffle.

Studio 2

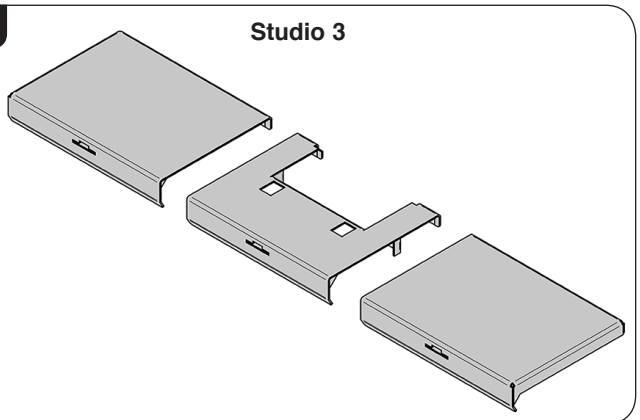
5 **Studio 2**



The Studio 2 baffle comes in two sections. To remove the baffle system first disengage the left hand side. The method of removal is the same for both sections.

Studio 3

6 **Studio 3**



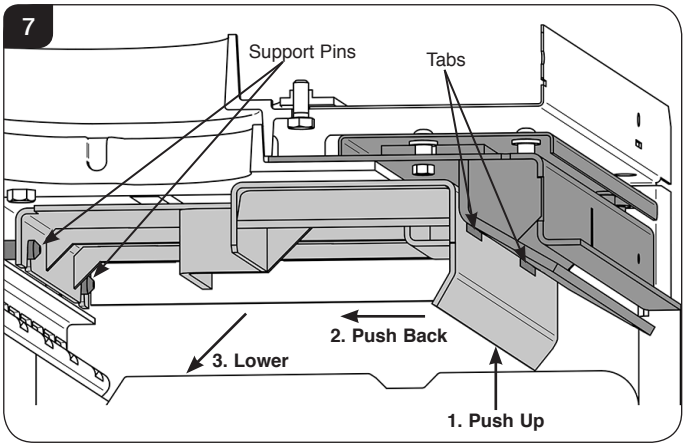
The Studio 3 baffle comes in three sections. To remove the baffle system the baffles must be taken out in the following order:
Left hand side
Middle
Right Hand side
The method of removal is the same for all sections.

All Models

4.2 Use two hands and lift the front edge of the baffle to clear the support tabs at the front of the firebox.
Push the baffle towards the back of the appliance to free it from the tabs at the front, see Diagram 7.

4.3 Lower the baffle into the firebox to disengage from the support pins and carefully withdraw through the front of the appliance, see Diagram 7.
Take care not to damage the firebricks.

7



4.4 If the appliance has more than one baffle remove in the correct order.

4.5 Replace in reverse order.

4.6 The baffle system is designed to give safe and efficient operation of the stove. Replace damaged baffles immediately.

4.7 **Do not modify the baffle system.**
Do not operate with the baffle system removed.

Pre-Installation Instructions

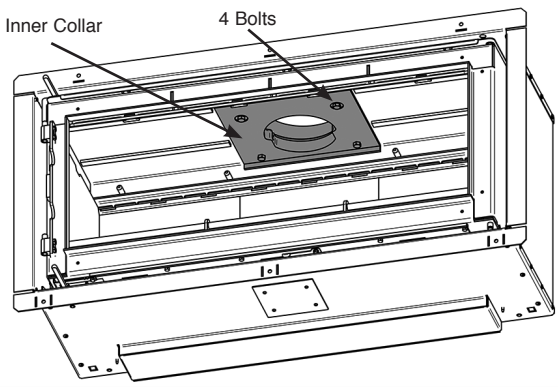
5. Separate the Inner & Outer Box

To protect the delicate parts of the appliance the product has been designed so that the inner box can be removed from the outer box.
Keep the inner box in a safe place whilst the outer box is installed into the fabric of the house, the main flue connections made and the walls finished.
When all the heavy work is complete the inner box can be re-installed into the outer box and the final connection made.

5.1 The internal components, bricks, baffles and the door etc should be removed to make the installation process easier and prevent damage.

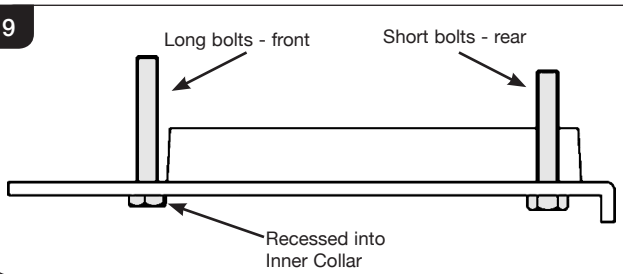
5.2 First remove the inner collar, see Diagram 8.

8



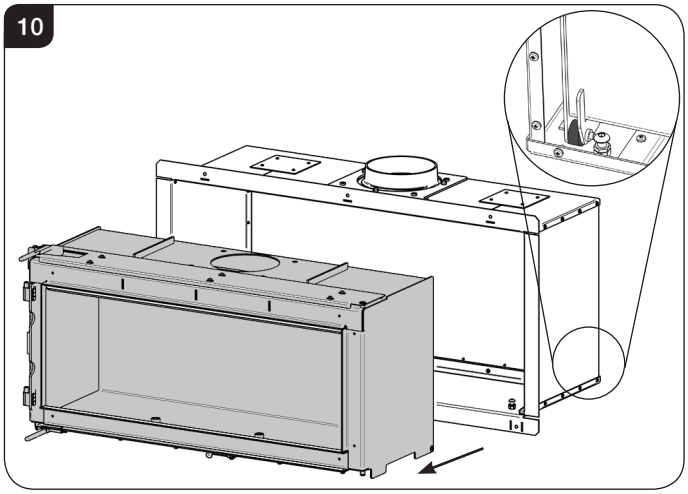
5.3 First remove the inner collar. Using a 13 A/F spanner, remove the 4 x bolts, see Diagram 9.

9



5.4 The inner box can now be slid out of the outer box.
There is a roller assembly at the rear which locates in cutouts on the outer box, see Diagram 10.

10



Pull the inner box carefully forward to release from the cutouts. It should now slide smoothly out of the outer box.
This will require at least two people.

1. Installing the Appliance

Each installation is unique to the property so it is not possible to give details to suit every setting. The installation must comply with Building Regulations† and be made using "best practice" construction methods‡.

The clearance to combustible materials for the Stovax Studio models is greatly different due to the higher temperatures that the appliance can reach. Extra care must be taken when creating a builders opening. Pay careful attention to the distance to combustible materials recommended and ensure the housing for the appliance is built from non-combustible material.

Many fireplace openings have a supporting lintel. Do not remove without supporting the remaining structure of the building. **Do not support the structure with the appliance or the flue system.**

1.1 **Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area**.

There are two types of installation for this appliance:

Fitting to a Masonry Chimney - Section 2.

Studwork Installation - Section 3, 4 & 5.

All methods of installation will require the attachment of frame fixing brackets prior to the installation of the outer box see Section 3.6.

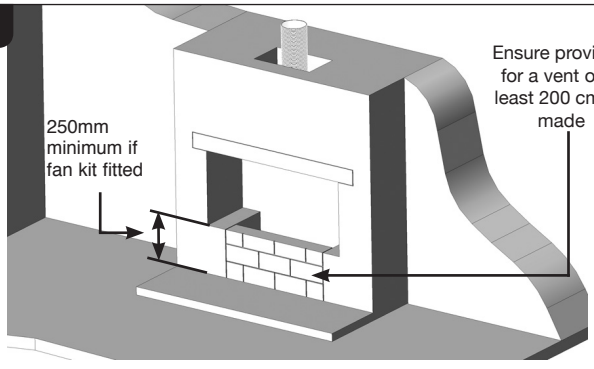
2. Fitting to A Masonry Chimney

2.1 Many fireplace openings have a supporting lintel. Do not remove without supporting the remaining structure of the building. **Do not support the structure with the appliance or the flue system.**

Stovax recommend the use of a flue liner when installing into a masonry chimney. Alternative methods can be used if the chimney is sound and correctly sized, however access may be required to make an effective seal - ie Using a sump adapter.

Important Note: If you plan to install an optional fan kit preparation must be made for the installation of wiring and sockets.

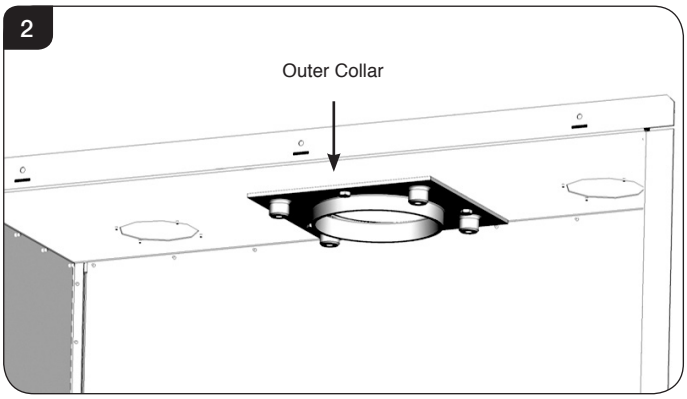
1



For opening sizes see *Installation Checklist.*

2.2 Removal Of Outer Collar

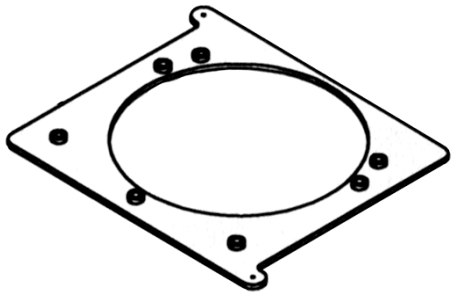
2



Using a 13 A/F Spanner remove the 3 bolts and remove outer collar.

There is a Flue Collar Bracket on top of the Outer Box. This locates on two pins that allow flexibility when replacing the Outer Collar.
The bracket remain in place when installing the flue system, see Diagram 3.

3



2.3 If the optional fan is to be fitted, remove the fan cover in the base of the outer case. This cannot be removed after the outer case has been installed. Full instructions are included with the fan (PM379).

Fit frame fixing brackets or Edge/Cool Wall frame as required. See alternative frame instructions (PM378) for individual fixing methods.

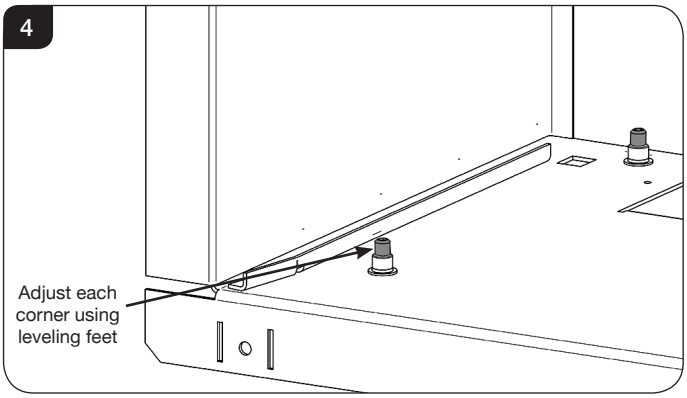
2.4 The outer box can be slid into the chimney opening and fitted.

† England and Wales – Document J / Scotland - Part F/Document J (Republic of Ireland only)
‡ the latest edition of BS 8303, BS EN 15287, BS 7566

Installation Instructions

2.5 The position of the box can now be improved within the builder's opening by adjusting the four levelling feet to ensure it sits firm and level at all four corners, see Diagram 4.

4



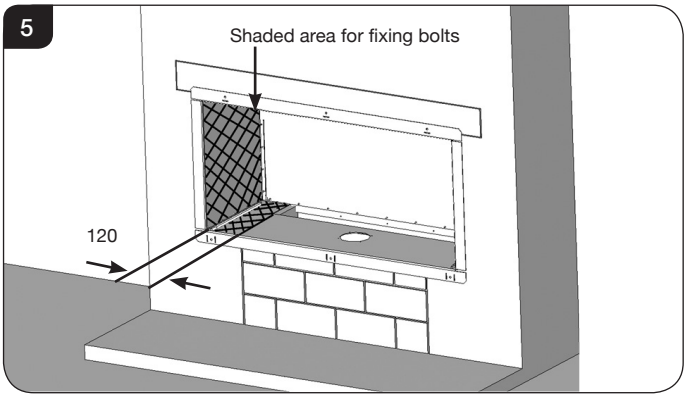
Wind the set screws down to the desired position in each corner.

2.6 **Use M6 or M8 bolts to secure the outer case to the masonry of the fireplace. There must be at least two bolts in the back of the outer case and one in either side. These can be secured through the sides or base of the outer case. Check the security of these fasteners before proceeding to fit the inner box.**

The side fixings may be positioned by drilling though the firebox into the base of the outer box and fixing within the shaded area shown in Diagram 5. Do not over tighten and deform the firebox.

This appliance MUST be securely fixed in position to support the door when opened.

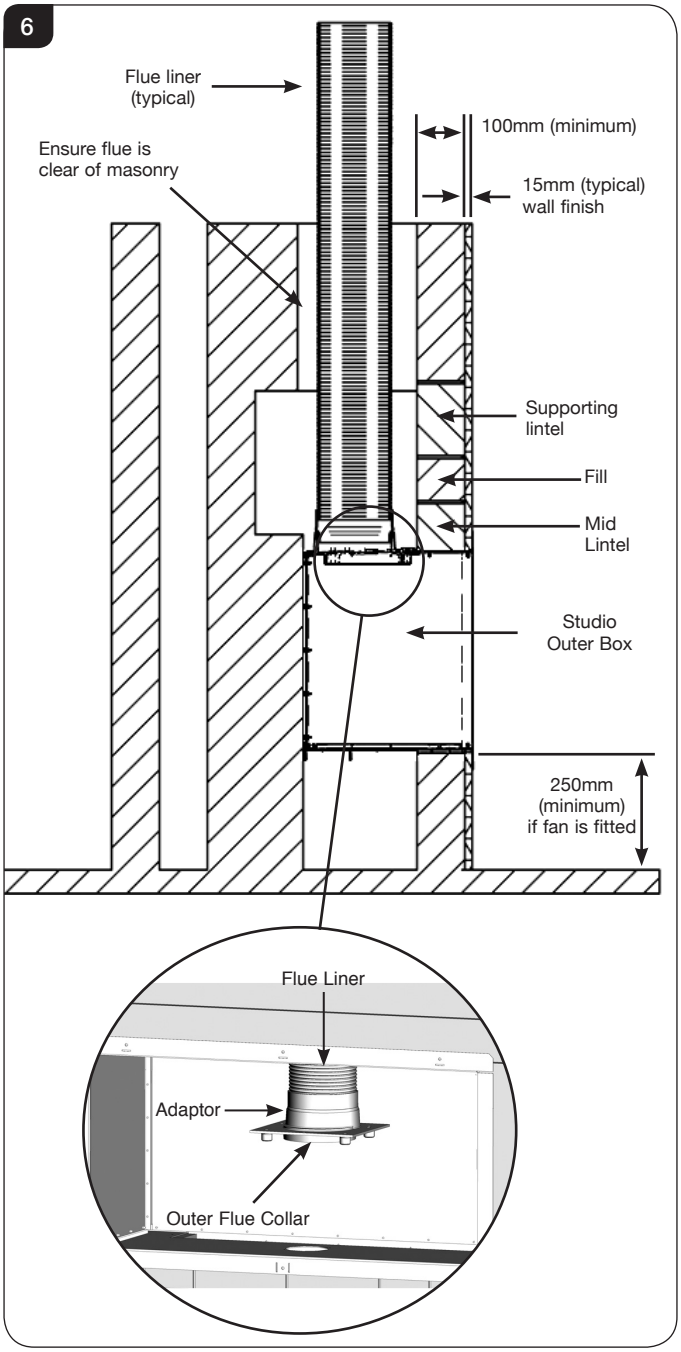
5



2.7 Flue Assembly

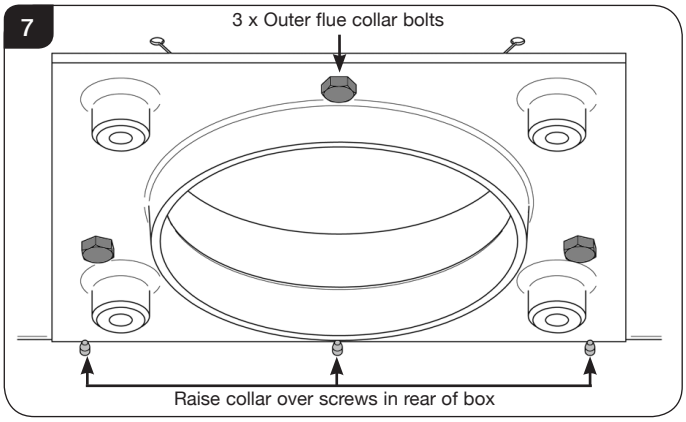
The flue liner can now be lowered through the outer box and connected to the outer flue collar using a suitable flexible flue liner adapter. Make sure that these joints are secured using suitable stainless steel fasteners and sealed with fire cement.

6



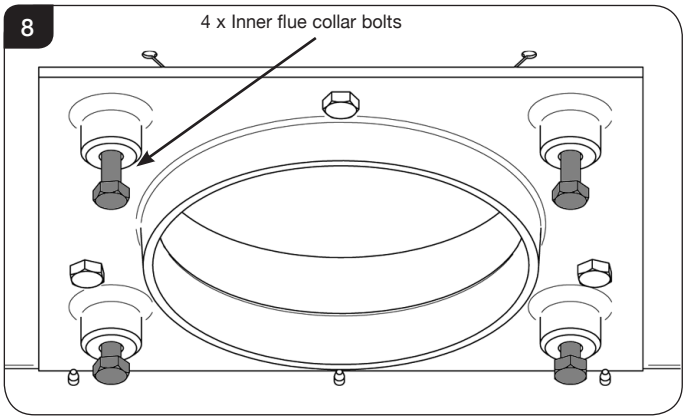
2.8 Push / pull the flue liner back up into the flue ensuring the outer flue cover clears the screws at the rear of the box. Secure the outer collar to the Flue Collar Bracket using the 3 x bolts, ensuring they are finger tight only, see Diagram 7.

7



2.9 To ensure the outer collar is central, and **to avoid cross threading of the bolts** during actual installation, feed the 4 bolts used to secure the inner collar into the holes in the outer collar as shown in Diagram 8. This should be done by hand and the bolts should be finger tight only. Do not force the bolts. If they are not easily located remove them and loosen the 3 x bolts holding the outer collar to allow for adjustment.

8



2.10 Once the 4 x bolts have been successfully located in the holes tighten the 3 x bolts securing the outer collar in place to create a good seal. **Do not over tighten the bolts.**

2.11 Remove the 4 x bolts and put them to one side until needed.

NOTE: The flue liner must be supported in accordance with the manufacturers instructions, there should be no weight on the Outer Box.

NOTE: If this appliance is NOT being fitted in a Smoke Control Area then the two parts that restrict the range of the air control sliders can be detached.

If the customer wants the ability to shut down the appliance completely, the air control sliders MUST be removed now as they cannot be accessed after installing the inner box.
See Section 7 on how to remove the restrictors.

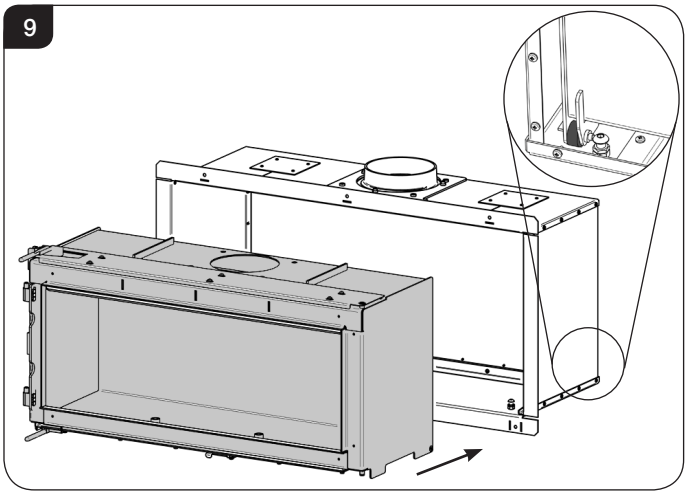
DO NOT REMOVE THESE RESTRICTORS IF FITTING THE APPLIANCE IN A SMOKE CONTROL AREA.

2.12 Inserting the Inner box

Slide the inner box into the outer box.
There is a roller assembly at the rear of the inner box which locates in cutouts in the base of the outer box, see Diagram 9.

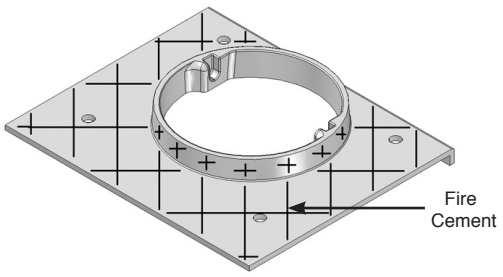
T**his will require 2 people**, see Diagram 9.

9



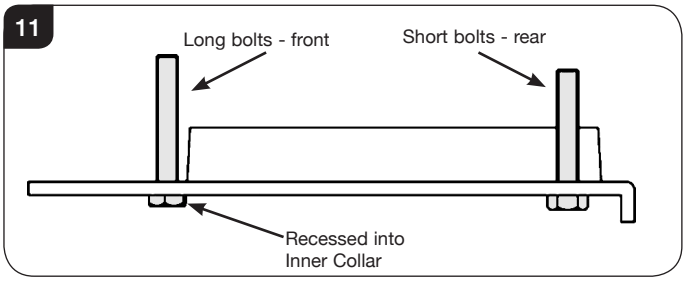
2.13 Apply fire cement in to the faces shown prior to fitting the inner collar, Diagram 10.

10 Inner Flue Collar



2.14 Fit the inner flue collar using the 4 bolts ensuring the 2 longer bolts are at the front and recessed into the Flue Collar, see Diagram 11.
All bolts must be finger tight only at this stage.

11

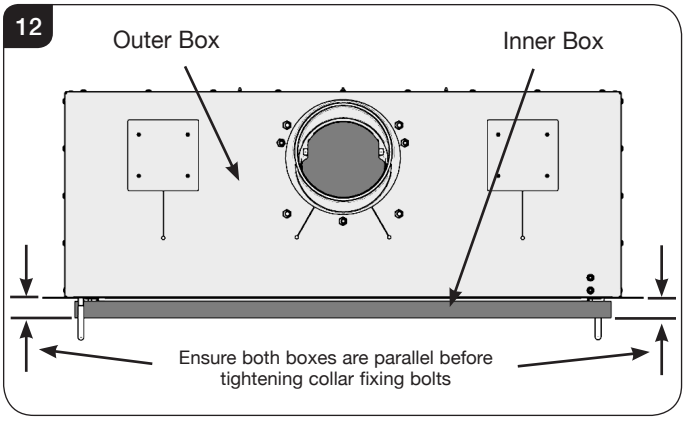


Installation Instructions

2.15 Ensure that the front of the inner box is parallel to the outer box, see Diagram 12. Adjust the position until correct and then fully tighten the 4 bolts. Do not over tighten.

NOTE: When correctly installed the inner box sits proud of the outer box, see Diagram 12.

12

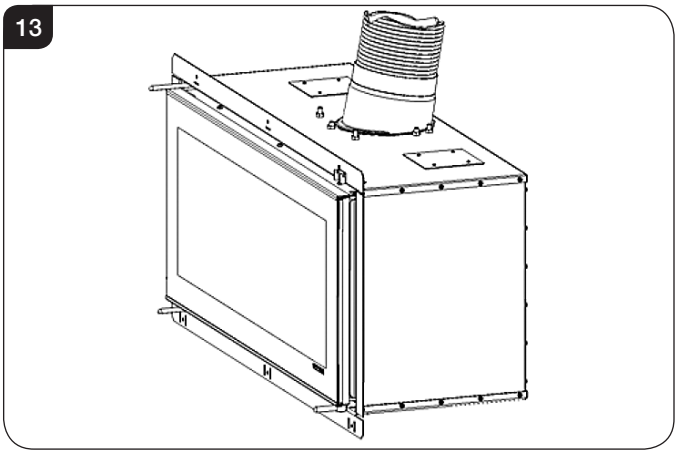


Replace the internal components (baffles, bricks, door etc), see relevant Pre-Installation sections.

Alternative Flue Outlet Collar

This appliance can be fitted with an angled outer flue collar. This will give extra clearance by locating the flue liner towards the back of the box.
It is available as an optional extra and should be fitted before installation instead of the straight outer collar.

13



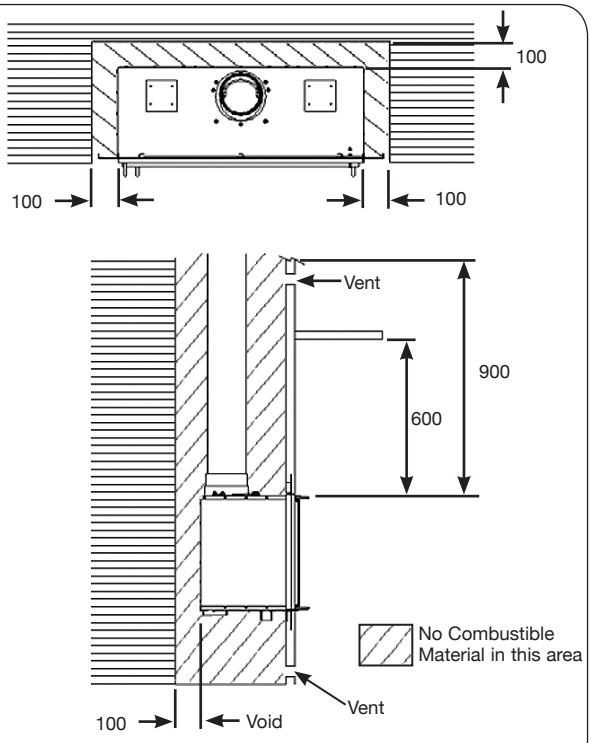
3. Studwork Installation

3.1 **DISTANCE TO COMBUSTIBLE MATERIAL**

ALL PARTS OF THE STUDWORK MUST BE NON COMBUSTIBLE - FOR EXAMPLE METAL STUDDING. DO NOT USE COMBUSTIBLE MATERIAL WITHIN THE DIMENSIONS BELOW.

USE AN APPROVED TWIN WALL INSULATED CHIMNEY SYSTEM WHEN INSTALLING WITHIN STUDWORK.

14



3.2 **Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.**

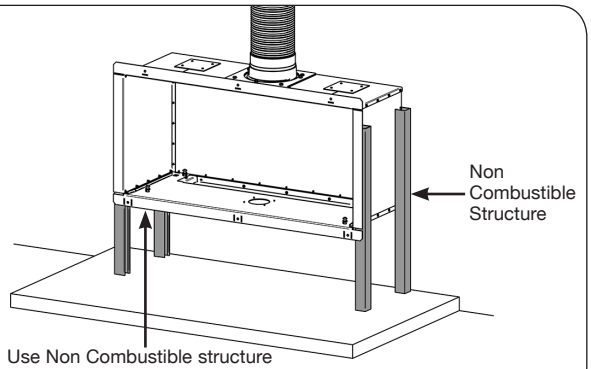
3.3 **The void built for the cassette must be ventilated to prevent a build up of heat. If the void is sealed then you must fit vents at both low and high levels of approximately 50cm^2 each. These vents must take cold air from the room and return warm air back into the room, see Diagram 19.**

3.4 **An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.**

Installation Instructions

3.5 **Support the outer box using metal framework (ie Unistrut) construction secured to the non combustible floor/wall, Diagram 15. See Diagram 4 for the drilling position in the outer box.**

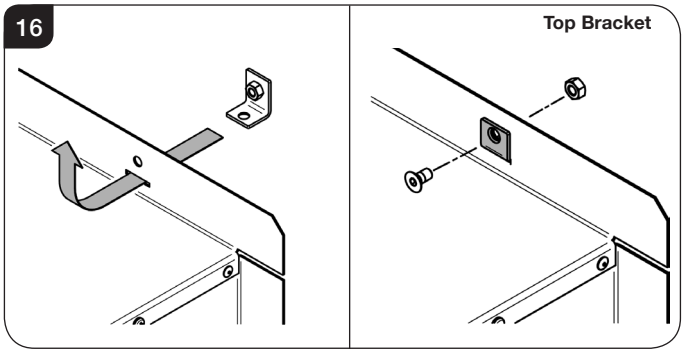
15



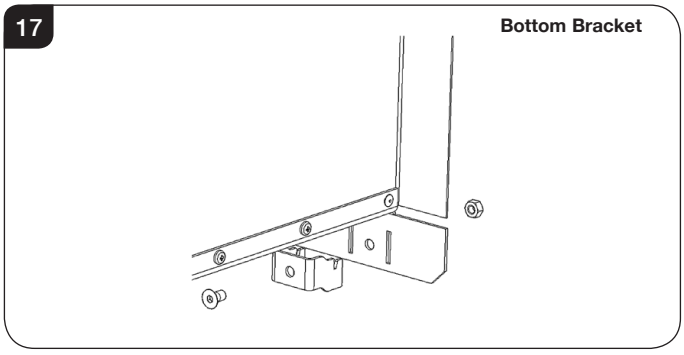
3.6 Attach the Studio frame fixing brackets to the fire, see Diagram 16 & 17.

See the frame fitting instruction for the individual fixing methods.
(Not required if Edge or Cool Wall frames are fitted)

16

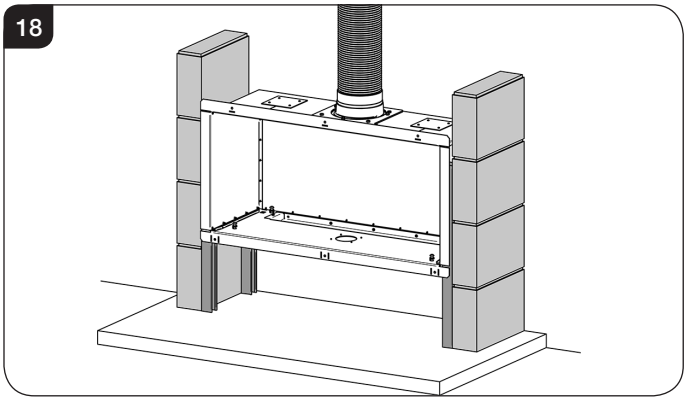


17



3.7 Build a chimney breast around the outer box using 100mm wide light weight insulating blocks*, Diagram 18.

18



Ensure the clearances to combustibles are maintained, see Diagram 14.
Fit non-combustible board to the brickwork around the outer box behind the flange to a height of at least 600mm above the opening.

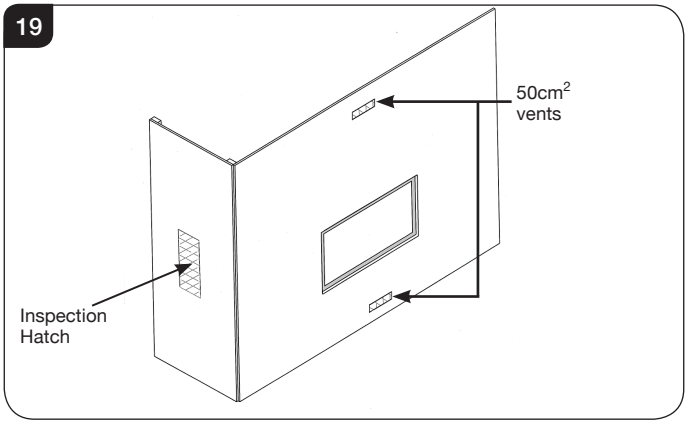
Apply a heat resistant plaster finish to at least 900mm above and to the sides of the chimney breast

Note: If a slip is used, this needs to be positioned behind the flange.
Never use a one-piece slip as expansion (even cracking) can occur.

To finish this installation, connect:
- the flue system (see Installation, 2.7 Flue Assembly)
- and electrical services (for fan installation - optional) using the opening in the side of the chimney breast for access.
- The Outside Air Kit (optional)
- Convection Ducting Kit (optional)

After commissioning:
Finish the sides of the chimney breast and re-install the inner box, see Diagram 19.

19



*** Typical Product - Thermolite® (Hanson UK)**

Installation Instructions

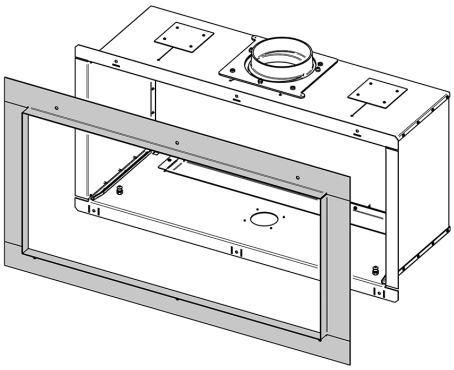
4. Frameless Edge Installation Kit

There is an optional Studio Edge Installation Kit designed to create a minimalist frameless finish making the appliance a focal point of any room:
Studio 500 Code No. RVS-500FEK,
Studio 1 Code No. RVS-1FEK,
Studio 2 Code No. RVS-2FEK,
Studio 3 Code No. RVS-3FEK.

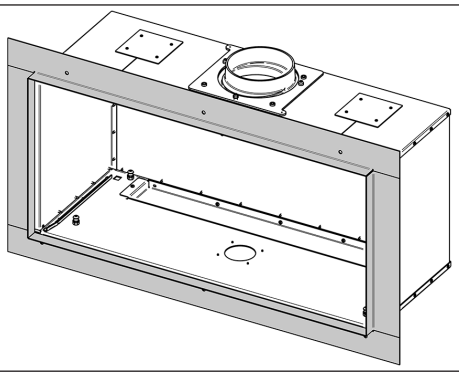
The Edge installation kit is provided unfinished. This allows the kit to be finished to match the front face decor.

4.1 To fit the frame:
Position on appliance and secure as detailed in the frame fitting instruction.

20

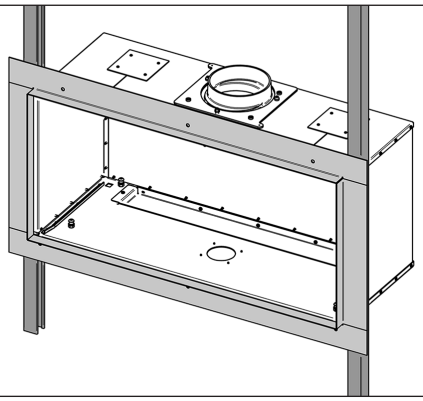


21



4.2 Build the studwork chimney breast to support the cassette, See Diagram 22.
Ensure all clearances to combustible material are maintained, See Pre-Installation Section.
To prevent cracking ensure no joints above the appliance.

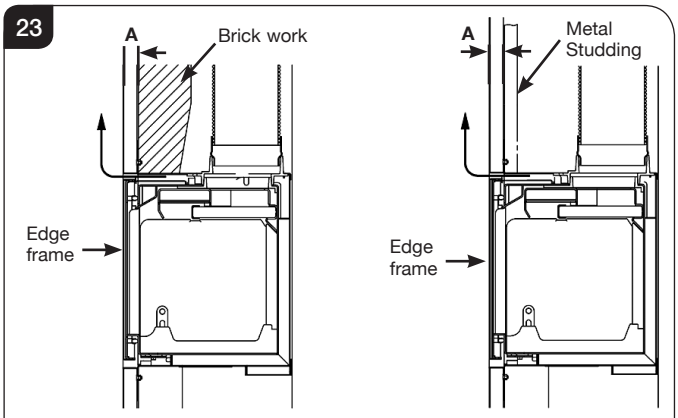
22



4.3 Fit non combustible board to studwork/frame/masonry and leave enough room for the final skim of heat resistant plaster.

The depth of the Edge flange will vary depending on the model of Studio. To ensure a flush finish the non-combustible board and the final plaster skim must add up to Dimension A, see Diagram 23 and the table below.

23

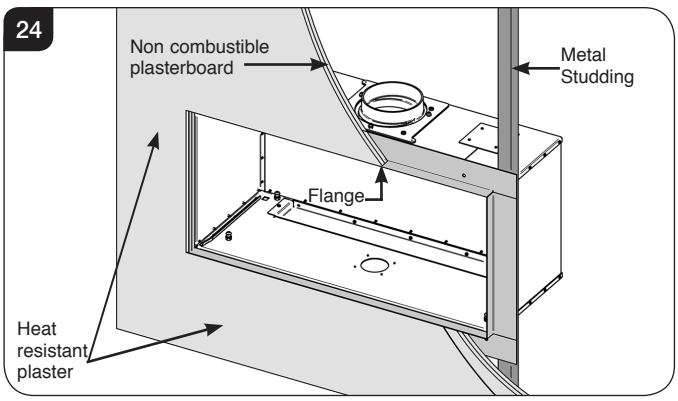


Model	A (mm)
Studio 500	34
Studio 1 & 2	34
Studio 3	44.5

Standard plasterboard is not suitable
This should extend a minimum of 600mm to the sides and above the appliance.

Apply a heat resistant plaster finish to **at least 900mm above and 400mm to the sides of the chimney breast**, making sure it is not too thin or it will crack, see Diagram 24.

24



NOTE: If this appliance is NOT being fitted in a Smoke Control Area then the two parts that restrict the range of the air control sliders can be detached.

If the customer wants the ability to shut down the appliance completely, the air control sliders MUST be removed now as they cannot be accessed after installing the inner box.
See Section 7 on how to remove the restrictors.

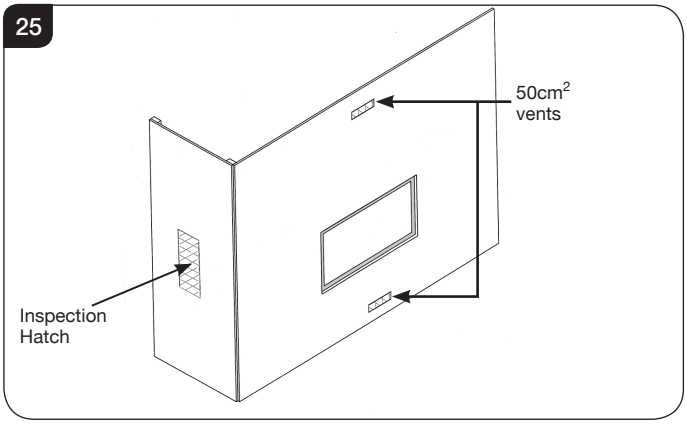
DO NOT REMOVE THESE RESTRICTORS IF FITTING THE APPLIANCE IN A SMOKE CONTROL AREA.

4.4 Allow for the connection of the following:
- Electrical services (for fan installation) using the opening in the side of the chimney breast for access.
- The Outside Air Kit (optional)
- Convection Ducting Kit (optional)
- The flue system (see Installation, 2.7 Flue Assembly)

To finish this installation re-install the inner box.

4.5 After commissioning, finish the sides of the chimney breast, see Diagram 25.

25



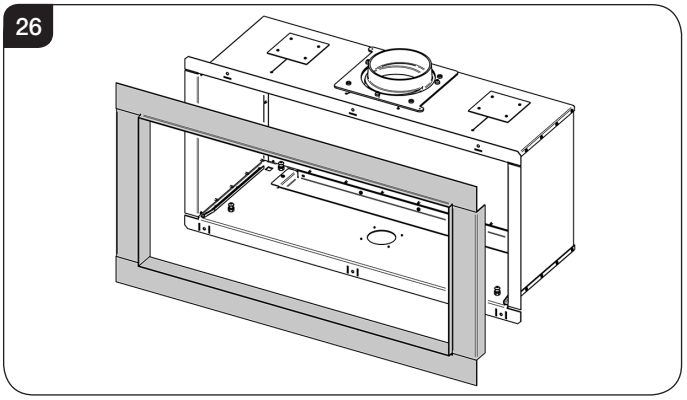
5. 'Cool Wall' Installation Kit

The Cool Wall kit gives the appliance a stylish frameless Edge finish but allows the convected heat of the fire to be channelled into the chimney cavity and vented at the top:
Studio 500 Code No. RVS-500FCWK,
Studio 1 Code No. RVS-1FCWK,
Studio 2 Code No. RVS-2FCWK,
Studio 3 Code No. RVS-3FCWK.

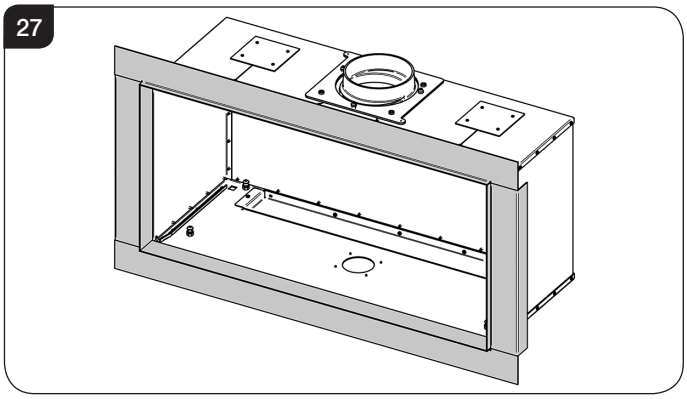
The Cool Wall installation kit is provided unfinished. This allows the kit to be finished to match the front face decor.

5.1 To fit the frame:
Position on appliance and secure as detailed in the frame fitting instructions.
There is a gap at the top for convected heat to pass behind the finished wall.

26

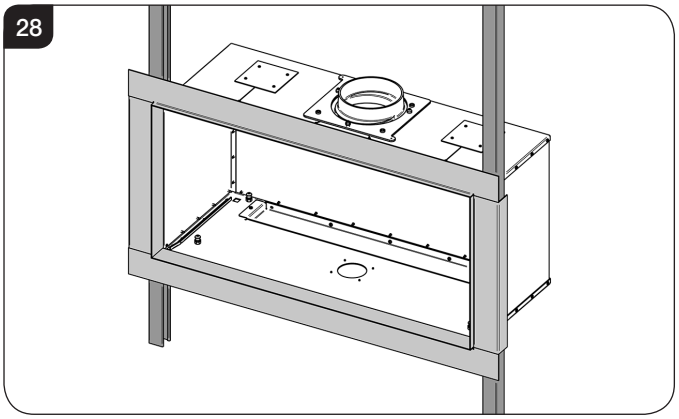


27



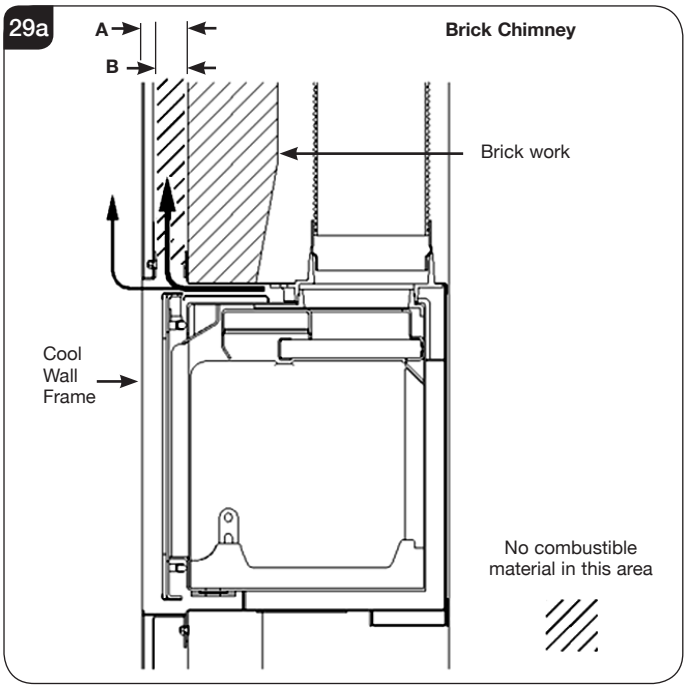
5.2 The frame determines the width of the two vertical studwork supports. The kit has been designed so that non-combustible board can be taken right up to the edge of the frame, see Diagram 28.

28



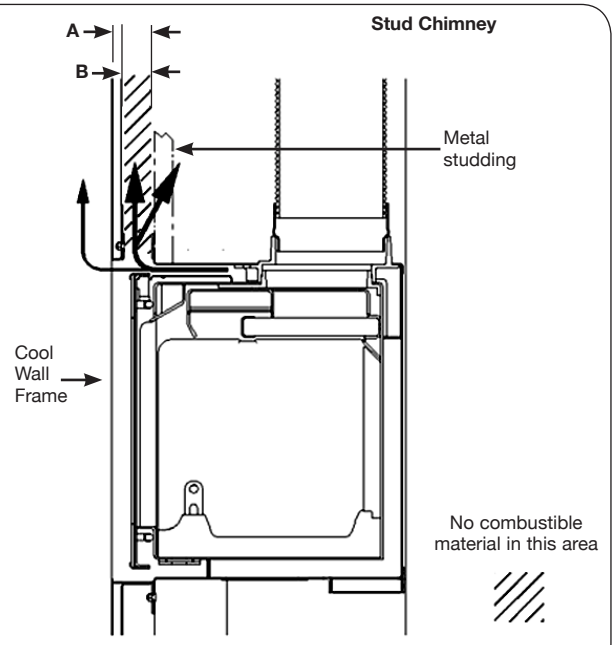
5.3 When constructing the studwork chimney breast the depth of the Cool Wall flange will vary depending on the model of Studio.
To ensure a flush finish the non-combustible board and the final plaster skim must add up to Dimension A, see Diagrams 29a & 29b and the table below.
Dimension B is the depth of the convection channel. Do not place combustible material in this area.

29a



Installation Instructions

29b

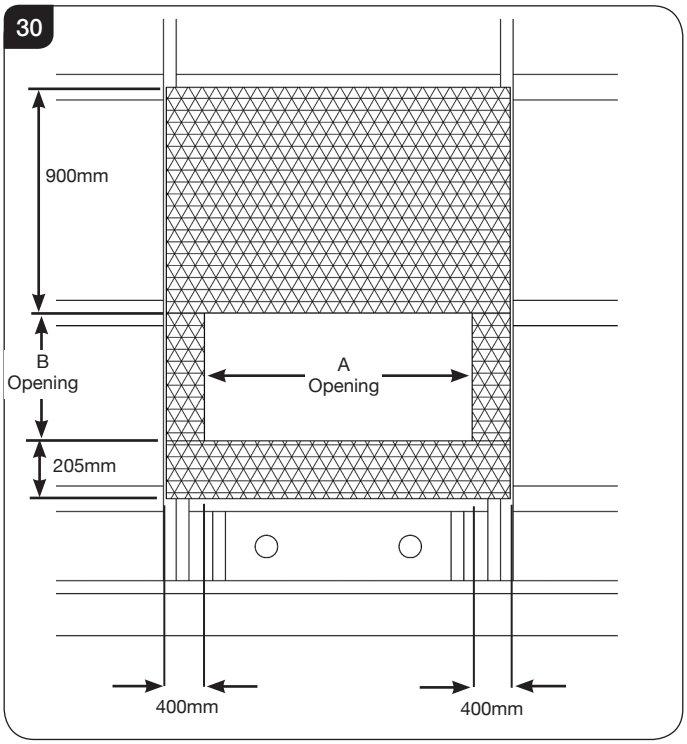


Model	A (mm)	B (mm)
Studio 500	59	43
Studio 1 & 2	59	43
Studio 3	70	54

5.4 Fit non-combustible board to the studwork above the fire. Leave enough room for a final skim of plaster.

Standard plasterboard is not suitable
This should extend to the whole height of the wall and a minimum of 400mm to the sides of the appliance. To prevent cracking ensure there are no joints above the appliance. No combustible materials are to be placed in the convection aperture, see Diagram 30.

30



Model	A	B
Studio 500	557	429
Studio 1	750	429
Studio 2	950	452
Studio 3	1337	463

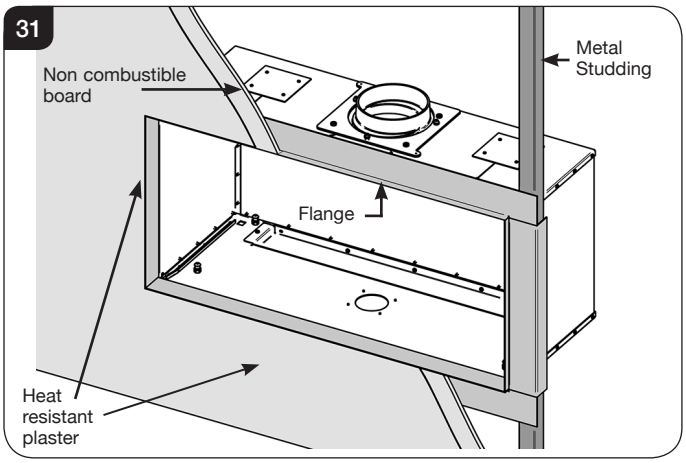
Do not pack the void around or above the appliance with insulation materials such as mineral wool or vermiculite.

An access hatch must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

5.5 Apply a heat resistant plaster finish to **at least 900mm above and 400mm to the sides of the chimney breast**, making sure it is not too thin or it will crack, see Diagram 31.

The top of the chimney breast must have a minimum 200cm^2 vent.

31



5.6 Fit plasterboard to the remaining chimney breast front.

5.7 Allow for the connection of the following:
- Electrical services (for fan installation) using the opening in the side of the chimney breast for access.
- The Outside Air Kit (optional)
- Convection Ducting Kit (optional)
- The flue system (see Installation, 2.7 Flue Assembly)

5.8 Connect the flue system and electrical services if fan is to be fitted using the opening in the side of the chimney breast for access.

5.9 Apply a heat resistant plaster finish to **at least 900mm above and 400mm to the sides** of the chimney breast.

NOTE: If this appliance is NOT being fitted in a Smoke Control Area then the two parts that restrict the range of the air control sliders can be detached.

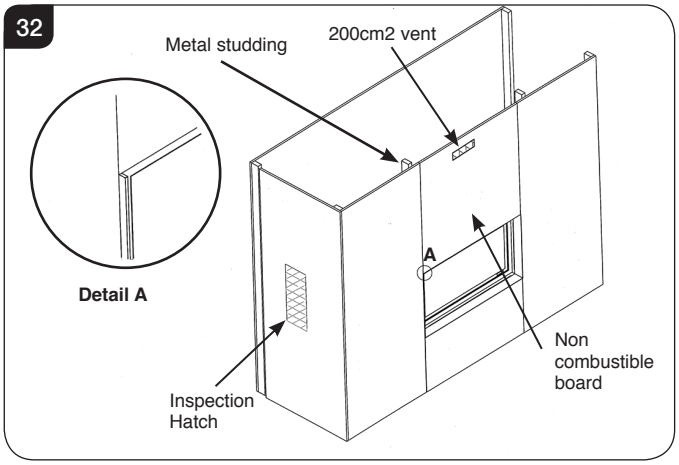
If the customer wants the ability to shut down the appliance completely, the air control sliders MUST be removed now as they cannot be accessed after installing the inner box.
See Section 7 on how to remove the restrictors.

DO NOT REMOVE THESE RESTRICTORS IF FITTING THE APPLIANCE IN A SMOKE CONTROL AREA.

To finish this installation re-install the inner box.

5.10 After commissioning, finish the sides of the chimney breast, See Diagram 32.

32



6. Fitting of Internal Components

Once the inner box has been installed the internal components can be fitted.

6.1 **The firebricks must be fitted before the baffle components.**

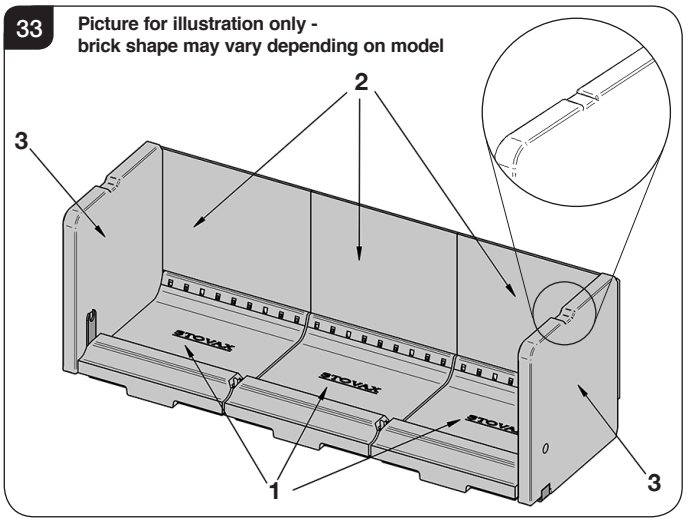
Firebricks

6.2 The Firebricks and Lower Baffle bricks are supplied in a box for safe transportation. It is advisable to carefully remove all of the bricks from the container in order to correctly identify the various types.

6.3 The side bricks have part of the Log bar supports attached. These must be fitted and removed at the same time as the bricks.

6.4 Install in the following order, see Diagram 33.
Take care when handling and do not force into position.

33 **Picture for illustration only - brick shape may vary depending on model**



6.5 To do this:

All Models

— Place the base bricks in the firebox (1).
Fit the left and right hand base bricks, then the middle.

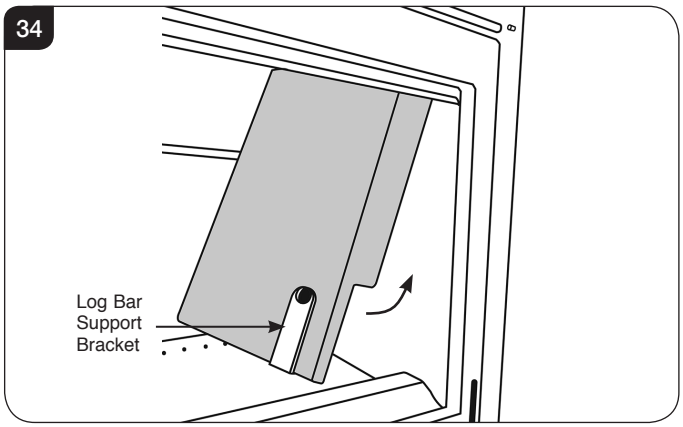
— Place the back bricks in position on top of the base bricks (2).

— Fit the side bricks (3) with the Log Guard Supports in place. The Log Bar Support holes can be used as a finger hold - follow the method for the relevant model.

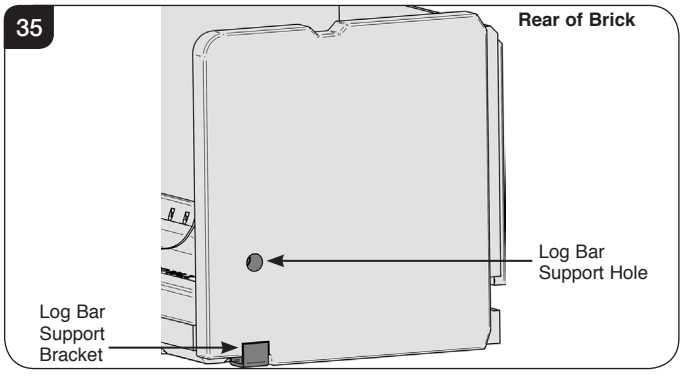
Studio 500, 1 & 2

Tilt the brick at an angle and feed the top edge up and into the gap at the top of the firebox.
Straighten the brick in this position and lower into the gap between the side of the inner box and the base brick ensuring the Log Bar Support remains in place, see Diagram 34 and 35.

34



35

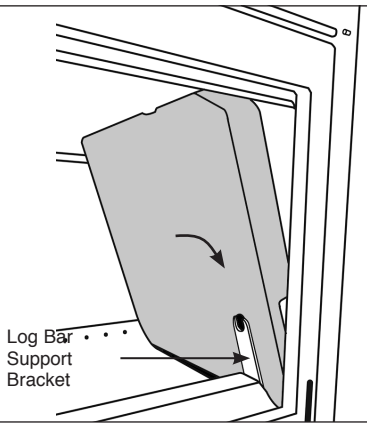


Installation Instructions

Studio 3

Tilt the brick at an angle and feed the lower edge down into the gap between the base brick and the side of the inner box.
Straighten the brick in this position and drop into place ensuring the Log Bar Support remains in place, see Diagram 35 and 36.

36



6.6 Repeat for the other side.

6.7 Removal is the reverse of this procedure.
Allow the appliance to cool fully before removing baffle system.

Do not modify firebricks.
Do not operate with firebricks removed.

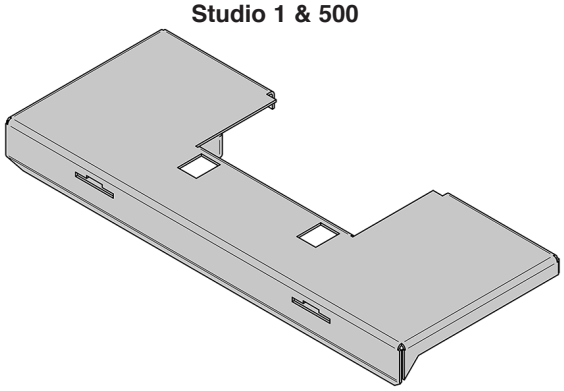
Upper Metal Baffle

The appliance is fitted with baffles in the top of the firebox to maintain efficient combustion.
Studio 500 and Studio 1 have 1 baffle.
Studio 2 has 2 baffles.
Studio 3 has 3 baffles.

6.8 Once the firebricks have been fitted it is possible to install the metal Top Baffles.

Studio 500 & Studio 1

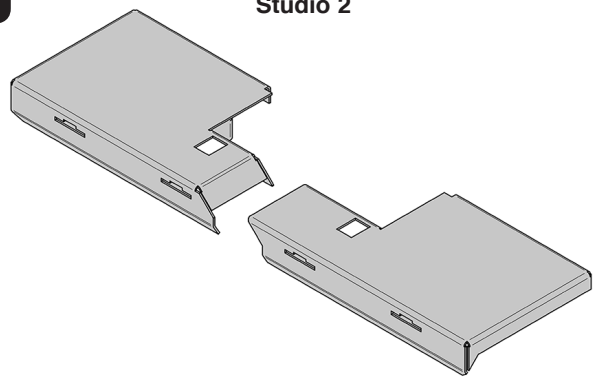
37 **Studio 1 & 500**



These models have a single section baffle.

Studio 2

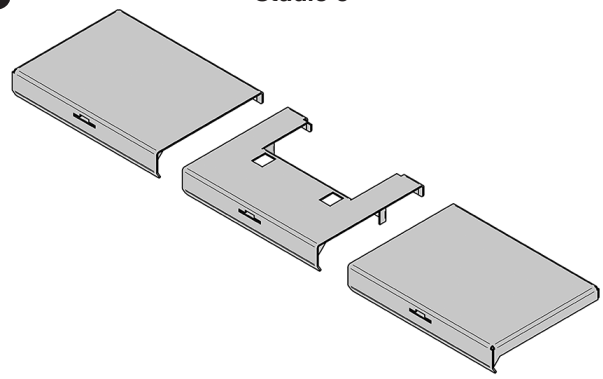
38 **Studio 2**



The Studio 2 baffle comes in two sections. Fit the right hand side baffle first. The method is the same for both sections.

Studio 3

39 **Studio 3**

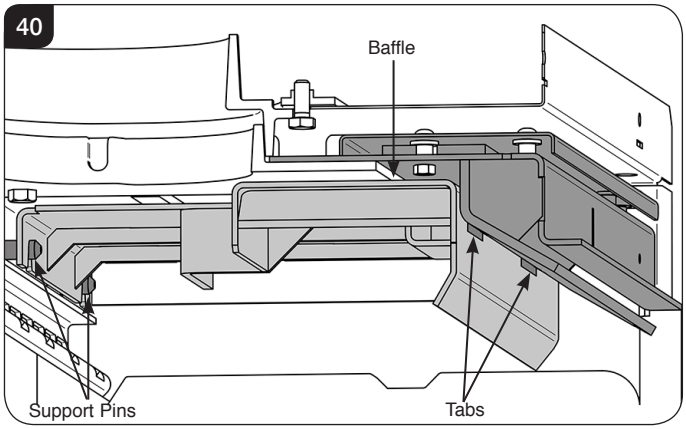


The Studio 3 baffle comes in three sections. To fit the baffle system the baffles must be placed in the firebox in the following order:
Right Hand side
Middle
Left hand side
The method of fitting is the same for all sections.

All Models

6.9 Use two hands and place the rear edge of the baffle over the support pins at the back of the firebox.
Raise the front so it is level and pull the baffle forwards to the front of the appliance and locate the keyslots in the front lip over the tabs at the top of the inner box, see Diagram 40.

40



6.10 The baffle system is designed to give safe and efficient operation of the stove. Replace damaged baffles immediately.

6.11 **Do not modify the baffle system.**
Do not operate with the baffle system removed.

Lower Baffle bricks

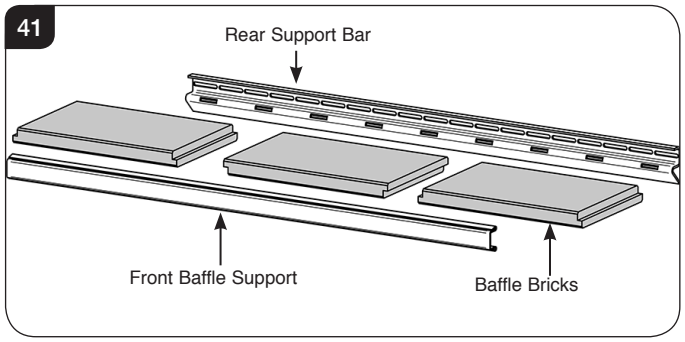
The appliance is fitted with baffles in the top of the firebox to maintain efficient combustion.

6.12 To fit the Lower Baffle Bricks feed the Front Baffle Support bar into the appliance and rest on top of the side bricks. This is best done by feeding one end of the bar towards the back of the firebox at an angle and then inserting the other end.

6.13 Once the support bar is inside the firebox bring forward as far as possible and place on the side bricks with the solid edge facing forward.

6.14 Insert the baffle bricks (see table) ensuring they are in the correct orientation, see Diagram 41.

41



Model	Baffle Number
Studio 500	2
Studio 1	3
Studio 2	3
Studio 3	4

6.15 To do this:

— Rest the rear edge of the bricks on the support bar at the back of the firebox.

— Fit the two side bricks first, then insert the middle brick and support.

— Fit the Front Baffle Support over the front edge of the baffle bricks to hold in place.

— The Front Baffle Support.

Do not modify baffle bricks.
Do not operate with baffle bricks removed.

Log Guard

6.16 Ensure that the side supports have been fitted at the same time as the side Firebricks

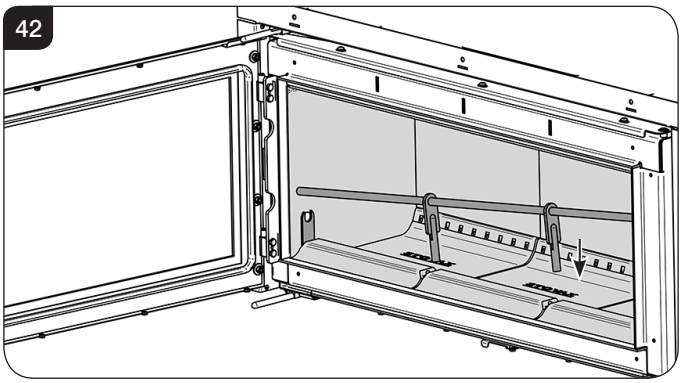
To fit the Log guard:

— Insert the Log Guard through the front of the appliance at an angle and rotate.

— With one end raised place the other end into one of the holes in the side bricks.

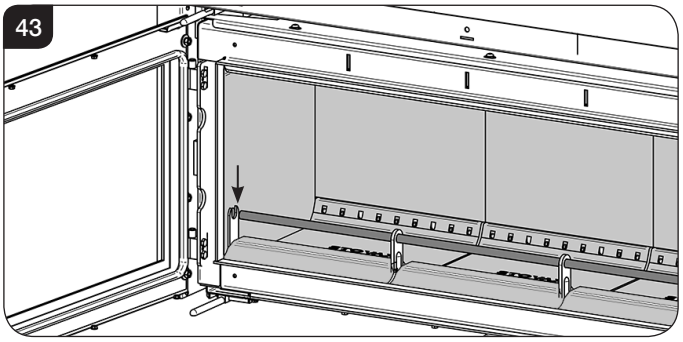
— Lower the Log Guard and insert the supports into the gaps between the base bricks and into the retaining brackets, see Diagram 42.

42



— Slide the Log Guard across so both ends locate evenly in the holes in the side bricks, see Diagram 43.

43



Do not use appliance without the log guard in position.

Installation Instructions

7. Smoke Control Kit

This section applies to the Riva Studio products listed:

Product Code	Appliance
RVST-500	Riva Studio Cassette 500
RVST-1HT	Riva Studio Cassette 1
RVST-2HT	Riva Studio Cassette 2

7.1 The Studio models listed are supplied with a pre-fitted smoke control kit and have been independently tested to PD6434 making them exempt from the controls that generally apply in Smoke Control Areas.

7.2 These models are suitable for use in a Smoke Control Area when burning wood and following the instructions for use specified in this manual but ONLY if the Smoke Kit has not been removed.

If these Studio models are installed outside of a Smoke Control Area then the Smoke Control kit can be removed to give more control over the lower burn rates.
Removing the kit should only be done by a suitably qualified installer and must be done at the time of installation.

The kit consists of two restricting brackets that are fitted to each of the air controls.

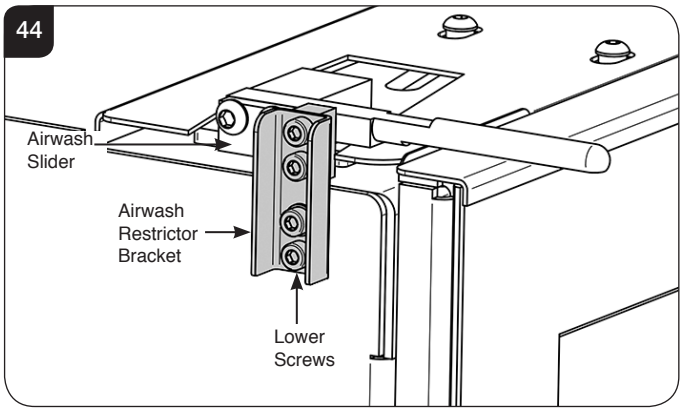
7.3 To remove the Smoke Control kit first ensure the appliance is completely cool.

7.4 Carefully follow the instructions to remove the inner box and place on a soft flat surface it will now be possible to access the brackets.

Airwash Restrictor

7.5 The Airwash restrictor bracket is a stop that fits on the top left hand side of the inner box, see Diagram 44.

44



7.6 Remove the 2 lower screws that secure the bracket to the inner box.
The bracket can now be stored safely in case it is required.

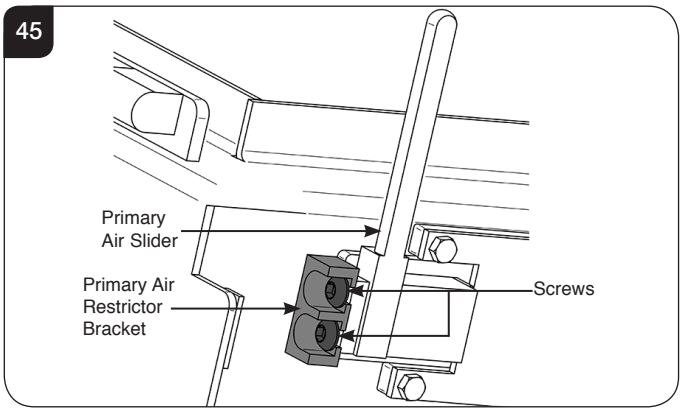
7.7 Replace the 2 screws in the holes that are in the side of the inner box to seal off unwanted air flow.

Primary Air Restrictor

7.8 Gently tip the inner box onto its back.
It is now possible to access the Primary Air Bracket.

7.9 The Primary Air Restrictor is secured by two screws, see Diagram 45.

45



7.10 Undo the screws by 3-4mm, but do not remove fully or the handle will fall off.

7.11 Slide the bracket from under the screws and store carefully in case it is required.

7.12 Tighten the 2 screws fully back into the side of the Primary Air Slider.

8. CO Alarms

All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. **Building regulations require that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm must be fitted in the same room as the appliance. Further guidance on the installation of the carbon monoxide alarm is available in the latest edition of BS EN50292 and from the alarm manufacturer's instructions.**

HETAS recommend the unit is permanently fixed in accordance with the manufacturer's installation instructions or with the guidance contained in Approved Document J where no other information is available.

Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

Commissioning

1.1 To commission:

— Replace the internal components.

— Check the door alignment and catch operation and adjust if required (see *Maintenance & Servicing, Sections 4 & 5*).

— Check the soundness of door seals, castings and joints.

— Check the operation of the air controls.

1.2 Now carry out a final smoke draw test:

— Warm the flue with a blowlamp, or similar, for about 10 minutes.

— Place a smoke pellet on the centre of the grate, with the air controls open.

— Close the door. Smoke should now be drawn up the flue and be seen to exit from the flue terminal.

— Complete test with all doors and windows closed in the room where the appliance is fitted.

— If there are any extractor fans in adjacent rooms the test must be repeated with the fans running on maximum and with interconnecting doors open.

— Check the effect of ceiling fans during the test.

If the test fails, re-check the suitability of the flue system and ventilation. An inadequate air supply to the room is potentially dangerous.

— Light the appliance and slowly increase the temperature.

— Ensure no combustion products enter the room.

— Open the main fire door when the appliance reaches operating temperature and carry out a spillage test with a smoke match or pellet around the door opening.

1.3 If excessive spillage occurs allow the appliance to cool and re-check the flue system and ventilation.

1.4 Finally:

— Explain to the user the correct operation of the appliance, use of the controls and the importance of only using suitable fuels in order to reduce smoke emissions - particularly if they live in a Smoke Control Area.

— Ensure that a CO alarm has been fitted and make the user aware of its operation and importance, referring them to the Warning section on page 5 of the User Instructions.

— Explain the cleaning and routine maintenance requirements.

— Explain the requirement to use a suitable fireguard when children, elderly or infirm persons are near the appliance.

— Record retailer/supplier and installer details in Appliance Commissioning Checklist (page 3, Instructions for Use).

— Record serial number in Appliance Commissioning Checklist (page 3, Instructions for Use).

This number is required when ordering spare parts and making warranty claims.

— Give this instruction manual to the customer.

Certificate Of Compliance

Upon completing the installation, the form below must be filled in by your installer to comply with the requirements of HETAS and the building regulations. The installer must give theses details, including their HETAS registration number, for the purposes of any insurance details that may change as a result of the appliance being installed.

HETAS LTD - CERTIFICATE OF COMPLIANCE

PLEASE TICK APPROPRIATE BOXES OR ENTER DETAILS IN BOXES BELOW

Record ID (HETAS Use Only)		(*indicates that this data must be given)

Customer Name	*		
Installation Address	*		
Installation Address			
Installation Address			
Installation Address			
Town	*		
Postcode	*	**Work Completion Date**	*
Local Authority Name (*Must be given if no postcode available)			
Installing Company Name	*	**Company's HETAS Reg. No.**	*
Installing Engineer's Name	*	**Engineer's HETAS Reg. No.**	*

Description of Work

Location:
Lounge ☐ Dining Room ☐ Kitchen ☐ Utility Room ☐ Bedroom ☐ Other, Specify

Appliance: Dry Open Fire ☐ Open Fire with Boiler ☐ Dry Cooker ☐ Cooker with Boiler ☐
Dry Roomheater/Stove ☐ Roomheater/Stove with Boiler ☐ Independent Boiler ☐
Make Model Heat Output kW

System: New Heating and Hot Water System ☐ Updated Existing Heating and Hot Water System ☐ Dry System Only ☐

If Wet System: Is the Hot Water System Unvented? Y / N

Chimney: New Insulated Factory Made Chimney System Installed ☐

Relining of existing chimney: Twin Wall Flexible Liner (for Class 1 Appliance) ☐ Cast In-situ Liner ☐
Rigid Sectional Liner Metal ☐ Rigid Sectional Liner Other ☐

Hearth: New Hearth/Surround fitted ☐ Existing Hearth Surround Updated ☐

Additional Information

Connecting fluepipe: Diameter mm Socket joints upward and gas tight ☐

Provision for sweeping chimney/fluepipe: Yes ☐ No ☐ Chimney Data Plate Location *

Air supply: Has a permanently open air vent been fitted: Yes ☐ No ☐

Is vent opening at least 50% of cross sectional area of throat/flue ☐ **or** State total free area of air vent mm^2

Confirm an approved Carbon Monoxide alarm has been fitted ☐

Testing & Commissioning to Approved J Appendix E

Confirm you have commissioned and tested the appliance & associated work for safe and efficient operation ☐

Declaration of completion As the competent person responsible for the work described above, I confirm that the appliance and associated work has been installed in accordance with the HETAS rules of registration, and that the work complies with Regulations 4 and 7 of the Building Regulations, and Approved Documents J, G & L as applicable.

Signed: _____ Print name: _____ Date: _____

COPIES OF THIS COMPLETED CERTIFICATE MUST BE (WHITE COPY) SENT TO HETAS LTD AT THE ADDRESS GIVEN BELOW (PINK COPY) GIVEN TO THE CUSTOMER FOR RETENTION (YELLOW COPY) RETAINED BY THE INSTALLING COMPANY

THIS CERTIFICATE SHOULD BE RETAINED BY THE PROPERTY OWNER WHO MAY BE REQUIRED TO PRODUCE IT IN ANY FUTURE SALE OF THE PROPERTY.

HETAS Ltd, PO Box 37, Bishops Cleeve, Glos. GL52 9TB

HETAS Ltd © (Oct 2010)

SPECIMEN

Maintenance & Servicing

For a complete list of spare parts and accessories contact your Stovax or call 01392 474011

1. Annual Service

1.1 Before the start of the heating season strip, inspect and clean the appliance as detailed:

—Allow appliance to cool.

—Remove all internal parts: baffle, log guard and firebricks. Take care handling firebricks as they can become fragile after a period of use.

—Sweep the appliance at this point if necessary.

—Vacuum clean any remaining ash and debris from the inside of the appliance. Stovax offer a filter/collection attachment for vacuum cleaners to protect them from fire ash: Ash Clean (Stovax Part No. 2091).

—Check the parts for any damage. Replace any damaged parts using genuine Stovax replacements parts.

— Check and clean the firebricks with a soft brush. Some surface damage will occur during use. The life of the bricks will depend on the type of fuels burnt and the level of use. **Replace damaged bricks as soon as possible.**

— Re-fit cleaned internal parts.

— **On appliances with printed glass do not use cleaning agents that have a high alkaline or acidic content, for example Stovax Gel Cleaner, these are aggressive cleaning agents designed to be used with heavily stained clear glass. On printed glass surfaces, use Stovax Glass Cleaner (Stovax No.4103) which is better formulated for this application.**

Do not use abrasive cleaners to remove tar or soot deposits from the glass.

—Fit new door rope seal (see *Maintenance and Servicing, Section 3*).

—Lightly oil the door catch mechanism and hinge pins. Avoid getting oil onto the door seals and glass.

—To refresh painted finishes a touch up spray is available. Contact your Stovax retailer quoting the serial number found on the appliance data badge.

1.2 Use genuine Stovax replacement parts to keep the appliance in safe, efficient working order. This is a list of the maintenance products that may need be required:

Task	Product name
Preventing build-up of creosote in flue	Protector (15 sachets)
	Protector (1kg tub)
Sealing flue pipe joints	Fire Cement (500g tub)
	Fire Cement (600g cartridge)
Re-painting	Touch Up Paint (150ml aerosol)
Protecting your hands	Heat resistant leather gloves
Thermic seal glue	(50ml bottle)
Cleaning Glass	Stovax Glass Cleaner (No. 4103)
	Stovax Gel Cleaner
Ash Clean	Vacuum Cleaner Attachment
Door Maintenance (Studio 3 only)	Anti-Seize Grease

These products, available online at **www.stovax.com** or from your local Stovax dealer, along with regular maintenance and use of correct fuels, will keep the appliance in the best possible condition.

1.3 For more information about the Stovax Group products please visit our web site at **www.stovax.com**

1.4 Burn at a low temperature for the first day of use after any maintenance. This allows the seals, fixing glues and paint to fully cure.

1.5 During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

1.6 Your Stovax dealer can carry out service and maintenance.

2. Removal of Internal Parts

2.1 To service and maintain the good working condition of your appliance it will be necessary to remove several internal parts. Consult the section for the following:

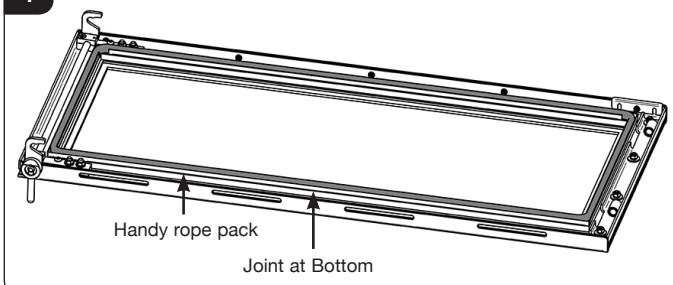
Door Assembly - Pre-Installation Section 2, page 18.
Upper Baffles - Pre-Installation Section 4, page 19.
Firebricks - Maintenance & Servicing Section 6, page 38.

2.2 Reverse the method of installation to remove the **Lower Baffle Bricks**, **Firebricks** and the **Log Guard** see Installation Section 6.

Maintenance & Servicing

3. Fitting a new Door Seal - All Models

1



3.1 To maintain the safe use of your appliance you need to replace damaged or worn door sealing rope. To complete this operation remove the door see Section 2 in the Pre-Installation section.

3.2 Remove the old rope and scrape old glue from the locating groove. Clean the locating groove with a clean dry cloth to remove all old dust and debris.

3.3 Squeeze a generous bead of fresh Stovax Thermic Seal glue into the rope locating groove.

Press the new Stovax rope into the locating groove, placing the joint in the middle of the top edge of the door using tape supplied for the ends.

3.4 Refit the door and close the door to apply pressure to the new rope.

Leave the appliance closed for at least 12 hours before lighting the appliance and using at a low output for approximately one day.

3.5 Using the appliance with a damaged door seal can cause dangerous fumes to enter the room, or the appliance to over fire, resulting in damage.

4A. Adjusting Door Hinges - Studio 500, 1 & 2

4a.1 To maintain the safe use of your appliance, you may need to adjust the door hinges to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly.

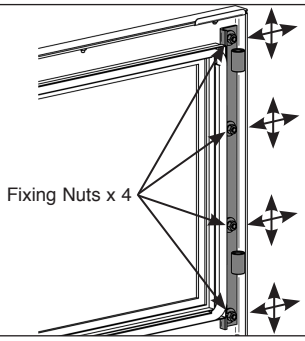
4a.2 Adjustment is possible in 2 places:
Door Hinge Assembly
Hinge Blocks on Inner Box

4a.3 Open the door to give access to these 2 positions.

Door Hinge Assembly

4a.4 Use a 10mm socket to slightly loosen the fixing nuts on the Door Hinge Assembly, see Diagram 2.

2

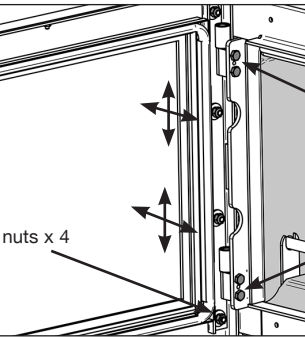


4a.5 Loosening the Door Hinge Assembly allows for fine vertical and horizontal adjustment of the door position. This may require a trial and error approach to find the correct position. Ensure the door is horizontal before tightening the fixing nuts.

Hinge Blocks on Inner Box

4a.6 Using a 10mm A/F spanner slightly loosen the fixing nuts inside the stove as shown in Diagram 3.
This will give vertical and horizontal adjustment which may need a trial and error approach to find the correct position. The door must be horizontally level.

3



4B. Lubricating Door Hinges - Studio 3 only

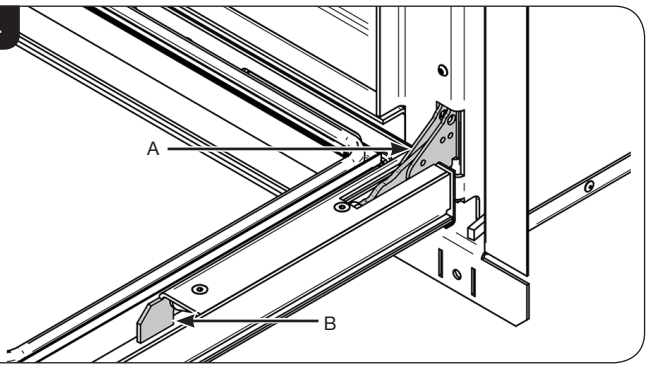
4b.1 If the operation of the door becomes stiff or fails to close properly it may be necessary to apply grease to the door hinge.

4b.2 Complete lubrication of the hinges as follows:

— Open the door fully.

— Use a small paint brush to add a small amount of high temperature anti-seize grease (Stovax part number - RVS-MEC10275) to points 'A' and 'B', see Diagram 4.

4



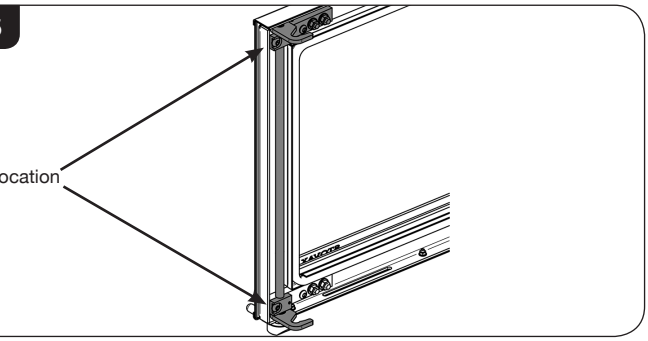
4b.3 Open and close the door a few times to work the grease into the hinge to return it to smooth operation.

5A. Adjusting the Door Catch - Studio 500, 1 & 2

5a.1 To maintain the safe use of your appliance you may need to adjust the door catch to ensure the safe, correct closing of the door. If the door hinges have been adjusted the door catch may need adjustment.

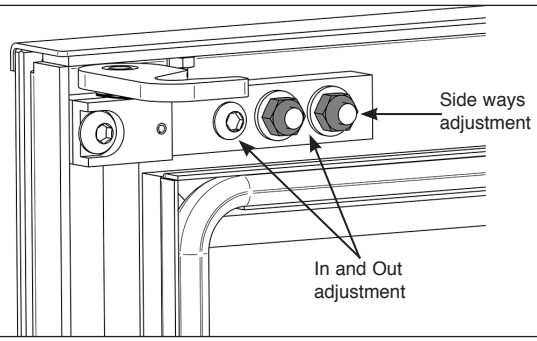
5a.2 The catches are located at the top and the bottom of the right side of the door.

5



5a.3 The top and bottom catches will need to be adjusted separately and in the same manner.
The catch block can move in two directions, see Diagram 6, 7 & 8.

6



Sideways Adjustment

Using a 10mm A/F Spanner loosen the 2 nuts that hold the catch block to the door.
Do not remove the nuts completely.
This will allow some movement left or right to suit.

Tighten the nuts and recheck the catch operation.

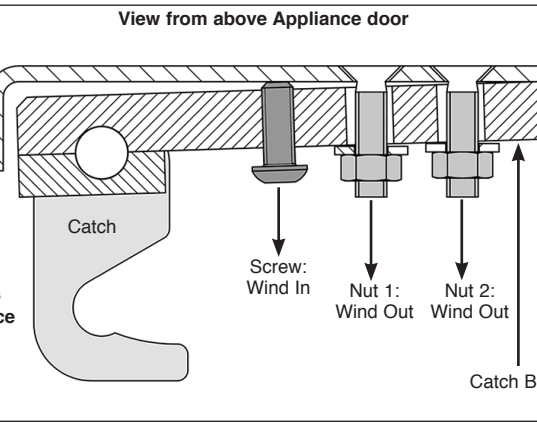
In and Out Adjustment

Loosening or tightening the M6 screw and the nuts on the catch block will cause the catch to move in or out from the door and allow the hook to gain better purchase on the door rollers.
Do not remove screw or nuts completely.

5a.4 **To move Door Catch in:**

Loosen Nuts 1 & 2.
Wind screw **IN** until the Door Catch is in desired position.
Tighten Nuts 1 & 2 down to Catch Block.

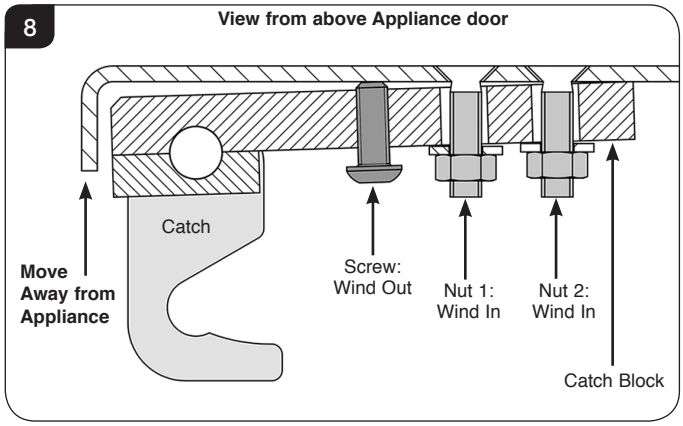
7



Maintenance & Servicing

5a.5 **To move Door Catch out:**

Loosen Nuts 1 & 2.
Wind screw **OUT** until the Door Catch is in desired position.
Tighten Nuts 1 & 2 down to Catch Block.



Do a Paper Test

To do a paper test shut a piece of paper in the door at the edges to test how well the rope seal stops the air from entering the appliance. If the paper can be pulled out easily then the seal is not sufficient and the rope must be replaced. Repeat this around all the edges of the appliance.

5B. Adjusting the Door Catch - Studio 3

5b.1 There is no user adjustment of the door.

6. Removal of the Firebricks

Depending on the model purchased it may be necessary to remove additional parts of the appliance when servicing to access the firebricks.

Studio 500, 1 & 2

It is possible to remove the firebricks with the Upper Metal Baffle in place.

Remove the following:

Log Guard

- Slide the Log Guard to one side to disengage from the hole in the side brick.
- Raise the free end and remove from the gaps in the base bricks.
- Withdraw from the hole in the other side brick and rotate the Log Guard through the front of the appliance.

Baffle Bricks

Pull the Front Baffle Support off the baffle bricks and move as far forward as possible.
Carefully remove the bricks working from the centre outwards.

Angle the Front Baffle Support to free from the firebox.

It is now possible to remove the Firebricks.
Lift the side bricks using the Log Guard support slots as finger holds and clear the base bricks; angle the bottom of the side brick towards centre of the firebox and withdraw.

Remove the back bricks, then the base bricks.

Studio 3

It is necessary to remove the Baffle Bricks and the side Upper Metal Baffles before attempting to remove the firebricks to avoid damage, see *Pre-Installation Section*.

Lift the side bricks slightly using the Log Guard support slots as finger holds; tilt the top of the side brick towards centre of the firebox and continue lifting to withdraw.

Remove the back bricks, then the base bricks.

Technical Appendix - Technical Appendix

Legal Requirements

Before installation and/or use of this appliance please read these instructions carefully to ensure that all requirements are fully understood.

The appliance must be fitted by a registered installer*, or approved by your local building control officer.

It is very important to understand the requirements of the national Building Regulations† and standards‡, along with any local regulations and working practices that may apply. Should any conflict occur between these instructions and these regulations then the regulations must apply.

Your local Building Control Office can advise regarding the requirements of the regulations.

† England and Wales – Document J / Scotland - Part F/Document J (Republic of Ireland only)
‡ the latest edition of BS 8303, BS EN 15287, BS 7566

***Registered on the Competent Persons Scheme (GB only) see page 42/ INFO (Republic of Ireland).**

Works must be carried out with care to meet the requirements of Health and Safety‡ and comply with the Health and Safety rules**, and any new regulations introduced during the lifetime of these instructions. Particular attention should be drawn to:

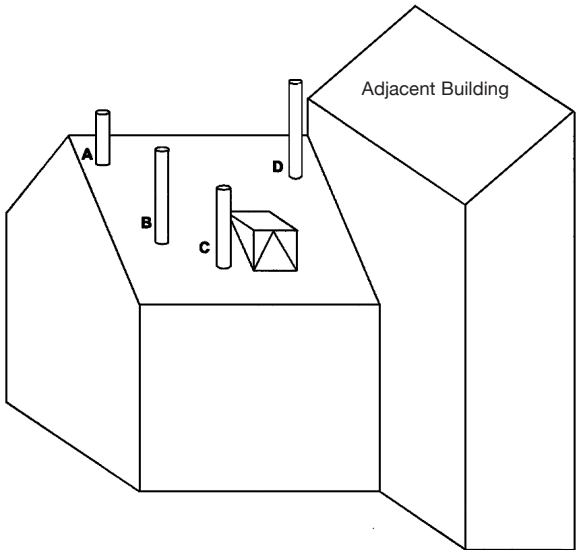
—**Handling**: The appliance is heavy. Adequate facilities must be available for loading, unloading and on site handling.
—**Fire Cement**: Some fire cement is caustic and must not come into contact with the skin. Protective gloves must be worn. Wash hands thoroughly with plenty of water after contact with skin.
—**Asbestos**: This appliance contains no asbestos. If there is the possibility of disturbing any asbestos in the course of installation seek specialist guidance and use appropriate equipment.
—**Metal Parts**: Take care when installing or servicing the stove to avoid personal injury.

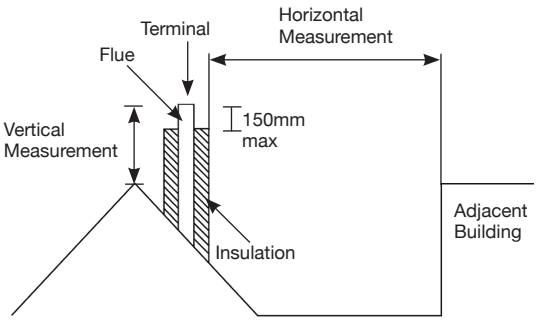
A faulty installation can cause danger to the inhabitants and structure of the building.

For users of this appliance:
Your building insurance company may require you to inform them that a new heating appliance has been installed on your property. Check that your cover is still valid after installing the appliance.

1. Flue Outlet Positions

These positions are defined by Document J of the Building Regulations.





The datum for vertical measurement is the point of discharge of the flue from either the point of discharge of the flue or 150mm above insulation, whichever is the lower.

IMPORTANT: Seek specialist advice if installing in a dwelling with a thatched roof

Point where the flue passes through weather surface (Notes 1 & 2)		Clearances to flue outlet
A	At or within 600mm of the ridge	At least 600mm above ridge
B	Elsewhere on roof (whether pitched or flat)	At least 2300mm horizontally from the nearest point on the weather surface and: a) at least 1000mm above highest point of intersection of the chimney with and the weather surface; or b) at least as high as the ridge
C	Below (on a pitched roof) or within 2300mm horizontally to openable rooflight, dormer window, or other opening (Note 3)	At least 1000mm above the top of opening
D	Within 2300mm of an adjoining or adjacent building, whether or not beyond the boundary (Note 3)	At least 600mm above any part of the adjacent of building within 2300mm

1) The weather surface is the building external surface, such as it's roof tiles or external walls.
2) A flat roof has a pitch less than 10°.
3) The clearance given for A or B, as appropriate, will also apply.
4) A vertical flue fixed to an outside wall should be treated as equivalent to an inside flue emerging at the nearest edge of the roof.

Technical Appendix - Flues

2. Flue or Chimney

2.1 The flue or chimney system must be in good condition. It must be inspected by a competent person and passed for use with the appliance before installation.

Products of combustion entering the room can cause serious health risks.

2.2 The following must be checked:

— The construction of the masonry chimneys, flue block chimneys and connecting flue pipe system must meet the requirements of the Building Regulations†.

— A flexible flue liner system can be used if certified for use with solid fuel systems and installation complies with manufacturer's instructions and Building Regulations. The flue liner must be replaced when an appliance is replaced, unless proven to be recently installed and in good condition.

— If it is necessary to fit a register plate it must conform to the Building Regulations†.

— The minimum height of the flue or chimney must be 4.5m from the hearth to the top of the flue, with no horizontal sections and a maximum of 4 bends. Bends must have angles of less than 45 degrees from the vertical.

—There should be at least 600mm of vertical flue pipe above the appliance before any bends are introduced.

— Ensure the connecting flue pipe is kept a suitable distance from any combustible material and does not form part of the supporting structure of the building.

— The installer must ensure the flue pipe diameter is not less than the diameter of the outlet of the appliance and does not narrow to less than the size of the outlet at any point in the system.

— Make provision to remove the appliance without the need to dismantle the chimney.

— Any existing flue must be confirmed as suitable for the new intended use as defined in the Building Regulations.

— The flue or chimney systems must be inspected and swept to confirm the system is structurally sound and free from obstructions.

— If the chimney is believed to have previously served an open fire it must be swept a second time within a month of regular use after installation to clear any soot falls that may have occurred due to difference in combustion levels.

— The flue exit from the building must comply with local building control rules†.

—Chimney heights and/or separations may need to be increased in particular cases where wind exposure, surrounding tall buildings, high trees or high ground could have adverse effects on flue draught.

— Do not connect or share the flue or chimney system with another heating appliance.

2.3 Do not connect to systems containing large voids or spaces over 230mm square.

2.4 Suitable access must be provided to enable the collection and removal of debris.

2.5 The flue must be swept and inspected when the appliance is installed.

Flue Draught

The flue draught must be checked with all windows and doors closed and any extraction fans in this, or adjoining rooms, running at maximum speed (see Installation Checklist for ventilation requirements).

Twin Wall Flue System

If this appliance is to be used in conjunction with a twin wall flue system then Stovax recommend the use of their Professional XQ range. Details of this product are available from your Stovax retailer.

In the U.K:
***BS EN 15287-1, and the requirements of Building Regulations**

****This should be done by a NACS registered (UK only)/INFO registered (Eire only) chimney sweep, who will issue you with a certificate.**

† Building Regulations Document J

Flue Plate:
Where a hearth, fireplace, flue or chimney is provided or extended (including cases where a flue is provided as part of refurbishment work), information essential to the correct appliance and use of these should be permanently posted in the building, to meet Requirement J4 of the Building Regulations (England and Wales), F3.12 (Scotland).

Additional:
A new factory made system that complies to EN 1856; Part 1 can be used providing installation is to the requirements of:
i) BS 7566 Parts 1 -4
ii) the manufacturer's instructions
iii) Building Regulations.

For a guide containing information on Chimneys and Flues contact:
The British Flue & Chimney Manufacturers' Association,
FETA
2 Waltham Court
Milley Lane
Hare Hatch
Reading
Berkshire RG10 9TH

Tel: 0118 9403416 **e-mail: info@feta.co.uk**

Ventilation - Technical Appendix

3. Ventilation

3.1 Many older buildings are sufficiently ventilated by natural leakage of air to provide suitable air supply for an appliance of 5kW output or less.

Modern building techniques have reduced the amount of air that leaks in or out of a house. A modern construction with an air tightness of less than 5m^3 per hour per m^2 requires an air vent for **ALL** solid fuel appliances including those with a rated heat output of less than 5kW.

NOTE: The air leakage of a modern house is tested at the completion of construction and a certificate issued confirming this.

3.2 This appliance requires a constant supply of air to maintain proper combustion and effective flue performance.

3.3 An inadequate air supply can result in poor combustion and smoke entering the room which is potentially dangerous.

3.4 This supply of air can come from either:

— Purpose provided ventilation.

— Some Stovax appliances can also be fitted with an optional outdoor air kit which allows air to be drawn in from the outside.

3.5 The amount of air required must comply with local building regulations and the rules in force.

3.6 If spillage is detected during commissioning then there may be insufficient natural ventilation and an additional air supply will be necessary.

3.7 Permanent air vents should be non-adjustable and positioned where they are unlikely to be become blocked.

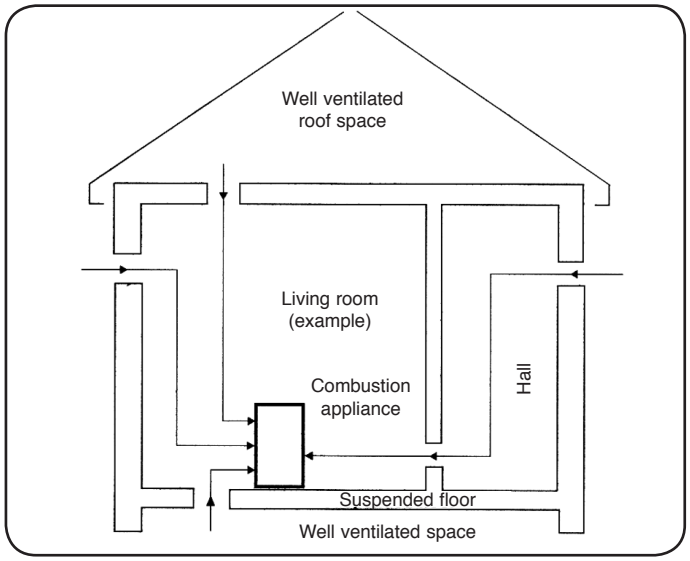
3.8 If vents open into adjoining rooms or spaces there must be an air vent of at least the same size direct to the outside.

3.9 Site the vents where cold draught is unlikely to cause discomfort. This can be avoided by placing vents near ceilings or close to the appliance (See diagram).

3.10 Extractor fans or cooker hoods must not be placed in the same room or space as this can cause the appliance to emit fumes into the room.

3.11 Increase air supply provisions where a room contains multiple appliances.

3.12 **If any checks reveal problems do not proceed with the fitting of the appliance until they have been rectified.**



4. Minimum Dimensions - Hearth

4.1 The appliance must stand on a non-combustible constructional hearth which is at least 125mm thick with the minimum dimensions as shown in diagram.
As this appliance can be installed in an elevated setting it is recommended to increase the 225mm hearth depth to safely contain any falling logs or embers. The higher the appliance is installed the deeper the hearth should be to protect the floor.

4.2 The building must have a suitable load-bearing capacity for the hearth and appliance. Consult a structural engineer for advice before proceeding.

4.3 When fitting into an existing hearth check that the appliance complies with current construction regulations and is at least the minimum sizes shown.

4.4 If there is no existing fireplace or chimney it is possible to construct a suitable non-combustible housing and hearth setting. The flue must be installed in accordance with all local and national regulations and current rules in force.

4.5 Check if adding a new chimney to your property requires planning permission.

4.6 Some houses are built using a timber frame construction with high levels of thermal insulation. Isolate the appliance from combustible materials, and provide sufficient ventilation to maintain the heating efficiency.

Technical Appendix

5. Builders Opening

Many fireplace openings have a supporting lintel. Remove the covering plaster to identify it's position before starting any constructive work. Do not remove constructional lintels without making provision to support the remaining structure of the building. The appliance must not form any part of the supporting structure.

5.1 The chimney/flue must have a sealed connection to the appliance flue spigot.

5.2 The structure of the builders opening will reach high temperatures. Use insulating blockwork to reduce the heat transfer to the external walls.

5.3 Take care when finishing the chimney breast and surrounding area. The conducted and convected heat emitted by the appliance could be high enough to crack normal plaster. Use a high temperature plaster, or face the area with a suitable non combustible board avoiding any joints above the appliance. New plaster should be fully dried before the appliance is used, or cracking could occur.

If you are in any doubt about your ability to produce a safe opening contact your Stovax dealer for professional advice.*

6. Fire Surround Clearances

6.1 We recommend you obtain expert advice before proceeding with work of this nature.

6.2 Some finishes may discolour with heat and some lower quality products may distort, or crack, when in use.

If stone / granite / marble or any other natural material is used to construct the fire surround, or any part of it, provision should be made for expansion and movement of the parts due to heating and cooling.

If you are in any doubt about the installation requirements, or suitability of fire surrounds contact your Stovax dealer.

6.3 All fire surrounds should be suitable for use with solid fuel heating products.

7. Fitting Appliances On A Boat

7.1 If an appliance is to be fitted in a boat it must be done in accordance with the latest edition of BS 8511 (Code of Practice for the Installation of Solid Fuel Heating Appliances on Boats). The Code covers the design, installation and operation of solid fuel heating appliances that are suitable for fitting into inland waterway boats, and gives guidance on product selection, design considerations, installation requirements, inspection and testing, as well as maintenance and safe use tips.

7.2 Consideration should also be given to the requirements of the Boat Safety Scheme (BSS) to ensure the boat's insurance remains valid.

7.3 The appliance should only be installed by a competent person with experience of the latest edition of BS 8511 and the Boat Safety Scheme (BSS).

7.4 Secure the product to a suitably constructed non-combustible hearth.

7.5 All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the boat. An electronic carbon monoxide detector conforming to the latest edition of BSEN50292 must be fitted and maintained.

7.6 Failure to safely install the appliance could endanger the boat and persons on board.

Organisations authorised to certify competence in the installation of domestic solid fuel appliances (Competent Persons Scheme):

APHC - Association of Plumbing and Heating Contractors (Certification) Ltd.
www.aphc.co.uk

BESCA - Building Engineering Services Competence Accreditation Ltd.
www.besca.org.uk

HETAS - Heating Equipment Testing and Approval Scheme Ltd.
www.hetas.co.uk

NAPIT - National Association of Professional Inspectors and Testers Ltd.
www.napit.org.uk

NICEIC - NICEIC Group Ltd.
www.niceic.org.uk

HETAS Approved Chimney Sweeps:

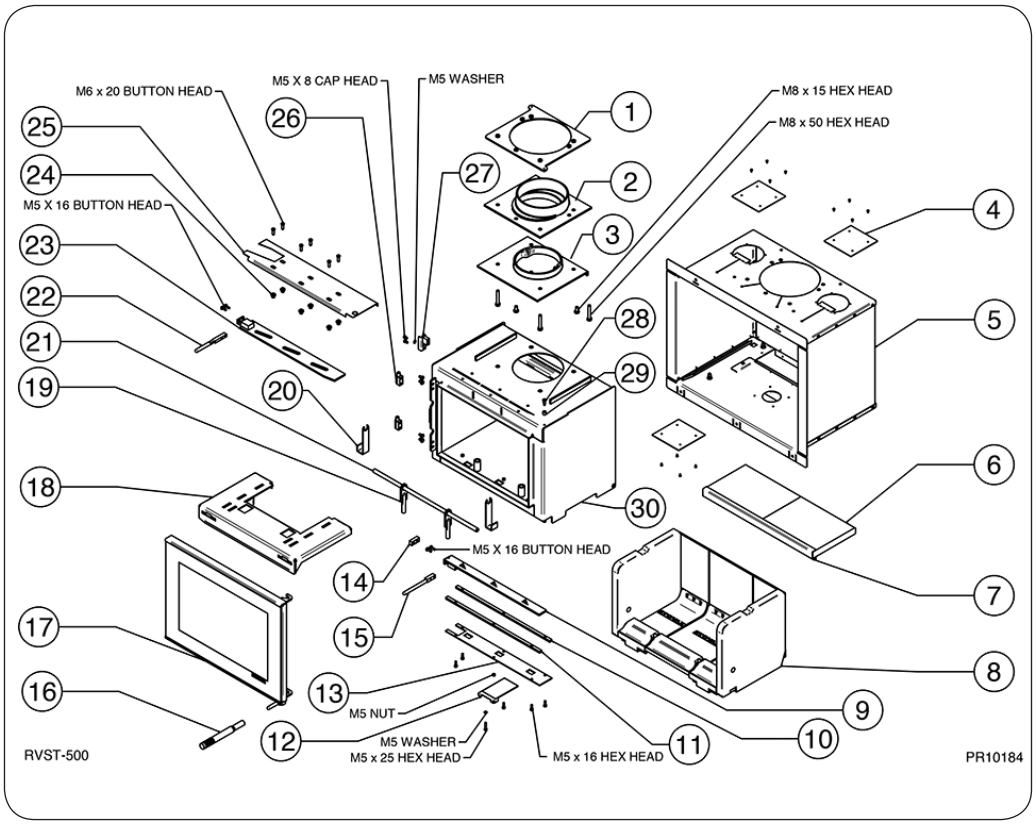
NACS - The National Association of Chimney Sweeps
www.chimneyworks.co.uk

APICS - The Association of Master Chimney Sweeps Ltd.
www.apics.org

The Guild of Master Chimney Sweeps -
guildofmasterchimneysweeps.co.uk

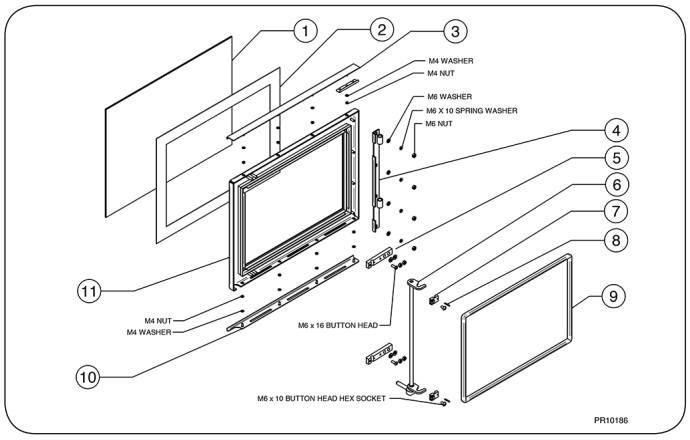
Basic Spare Parts

RVST-500 RIVA STUDIO 500



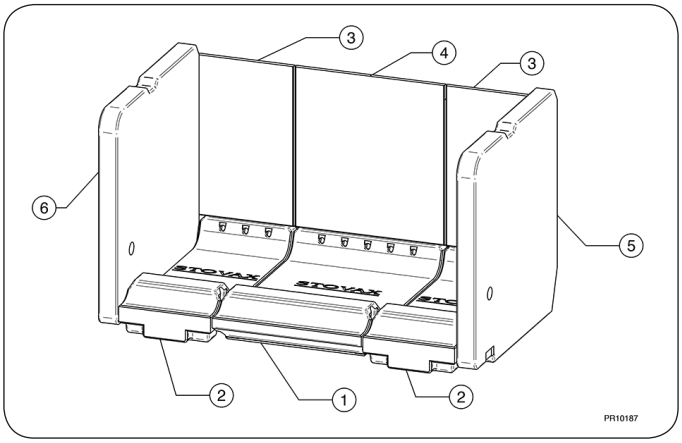
Ref. No.	Description
1	FLUE CLAMP ASSEMBLY PLATE
2	TOP COLLAR
3	LOWER COLLAR
4	CONVECTOR AIR COVER
5	OUTER BODY ASSEMBLY
6	BAFFLE BRICK
7	BAFFLE SUPPORT
8	BRICK ASSEMBLY
9	PRIMARY SLIDER
10	PRIMARY AIR SLIDER RUNNER
11	PRIMARY AIR SLIDER RUNNER
12	DATA PLATE MOUNT
13	PRIMARY SLIDER COVER
14	PRIMARY AIR SC KIT BRACKET
15	PRIMARY AIR HANDLE
16	TOOL HANDLE
17	DOOR ASSEMBLY
18	TOP BAFFLE ASSEMBLY
19	LOG GUARD SUPPORT ASSY
20	LOG GUARD
21	LOG GUARD END SUPPORT
22	AIRWASH HANDLE
23	AIRWASH SLIDER
24	AIRWASH SPACER
25	AIRWASH SLIDER COVER
26	HINGE BLOCK ASSEMBLY
27	AIRWASH SC KIT BRACKET ASS
28	CATCH ROLLAR PIN
29	CATCH ROLLAR
30	INNER BOX ASSEMBLY

DOOR ASSEMBLY



Ref. No.	Description
1	DOOR GLASS
2	GLASS ROPE
3	TOP GLASS CLAMP ASSEMBLY
4	HINGE ASSEMBLY
5	LOWER CATCH BLOCK
6	DOOR CATCH ASSEMBLY
7	UPPER CATCH BLOCK
8	SPIROL PIN Ø3 X 18 LG
9	DOOR ROPE
10	GLASS CLAMP BASE ASSEMBLY
11	DOOR FRAME ASSEMBLY

BRICK ASSEMBLY

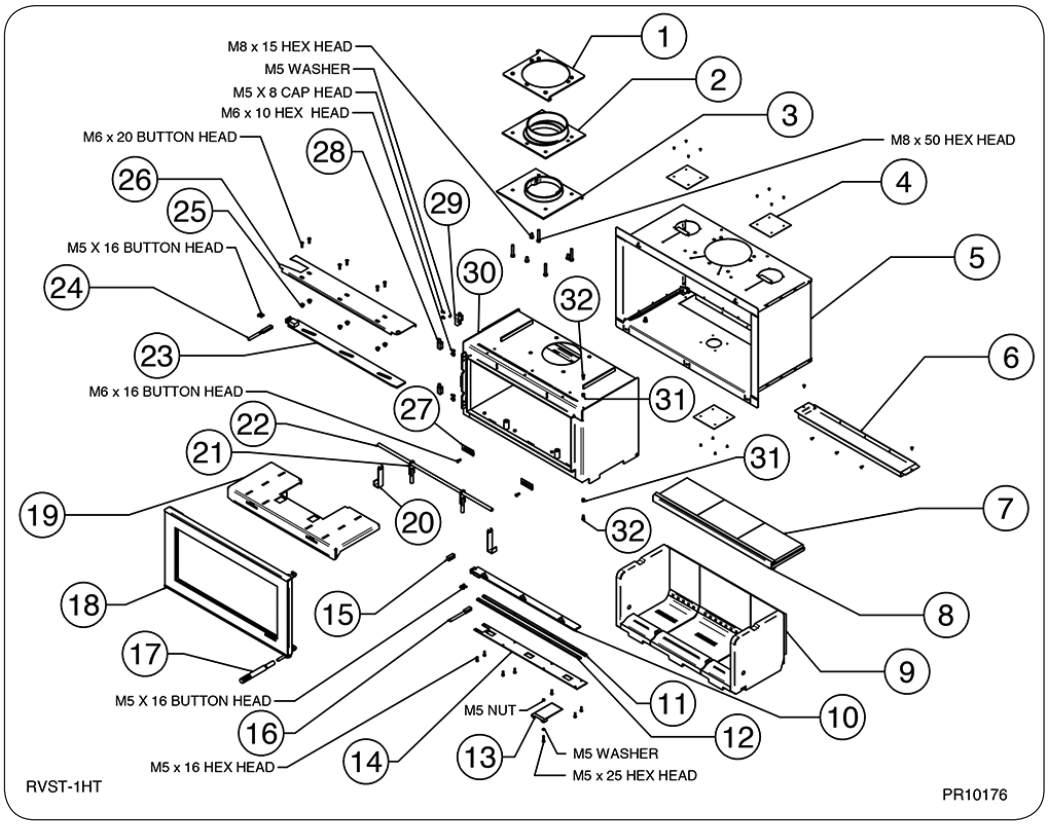


Ref. No.	Description
1	BASE CENTRE BRICK
2	BASE SIDE BRICK
3	REAR SIDE BRICK
4	REAR CENTRE BRICK
5	SIDE BRICK RIGHT HAND SIDE
6	SIDE BRICK LEFT HAND SIDE

Due to continual technical improvements please check online at www.stovax.com or with your Stovax retailer for the most up to date parts lists.

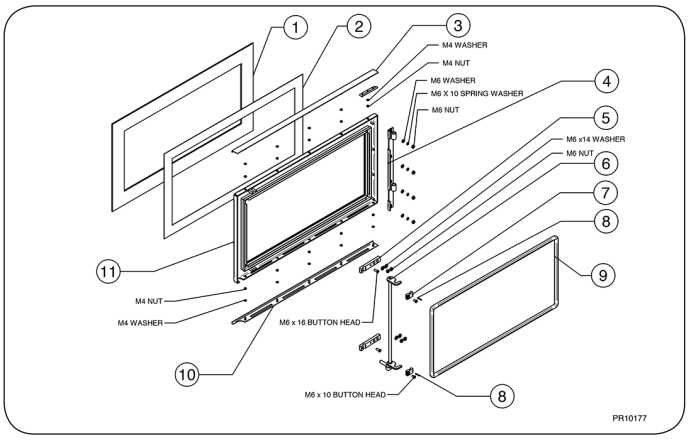
Basic Spare Parts

RVST-1HT RIVA STUDIO 1



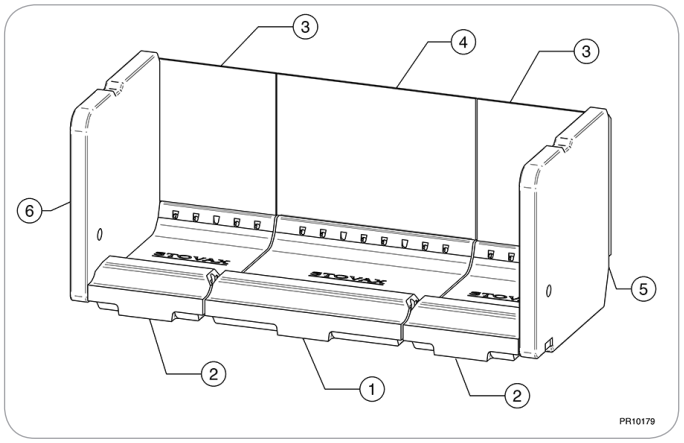
Ref. No.	Description
1	FLUE CLAMP PLATE ASSEMBLY
2	TOP COLLAR
3	LOWER COLLAR
4	CONVECTOR AIR COVER
5	OUTER BODY ASSEMBLY
6	FAN BLANKING INFILL
7	BAFFLE BRICK
8	BRICK BAFFLE SUPPORT
9	WOOD BRICK ASSEMBLY SKAMOL
10	PRIMARY SLIDER
11	PRIMARY AIR SLIDER RUNNER
12	PRIMARY AIR SLIDER RUNNER
13	DATA PLATE MOUNT
14	PRIMARY AIR SLIDER COVER PLATE
15	PRIMARY AIR SC KIT BRACKET
16	PRIMARY AIR HANDLE
17	TOOL HANDLE
18	DOOR ASSEMBLY
19	TOP BAFFLE ASSEMBLY
20	LOG GUARD END SUPPORT
21	LOG GUARD SUPPORT ASSY
22	LOG GUARD
23	AIRWASH SLIDER
24	AIRWASH HANDLE
25	AIRWASH SPACER
26	AIRWASH SLIDER COVER
27	SECONDARY AIR CONTROL SLIDER
28	HINGE BLOCK ASSEMBLY
29	AIRWASH SC KIT BRACKET ASS
30	INNER BOX ASSEMBLY
31	CATCH ROLLER
32	CATCH ROLLER PIN

DOOR ASSEMBLY



Ref. No.	Description
1	STUDIO 1 DOOR GLASS
2	GLASS ROPE
3	TOP GLASS CLAMP ASSEMBLY
4	HINGE ASSEMBLY
5	LOWER CATCH BLOCK
6	DOOR CATCH ASSEMBLY
7	UPPER CATCH BLOCK
8	SPIROL PIN Ø3 X 18LG
9	DOOR ROPE
10	BOTTOM GLASS CLAMP
11	DOOR FRAME ASSEMBLY

BRICK ASSEMBLY

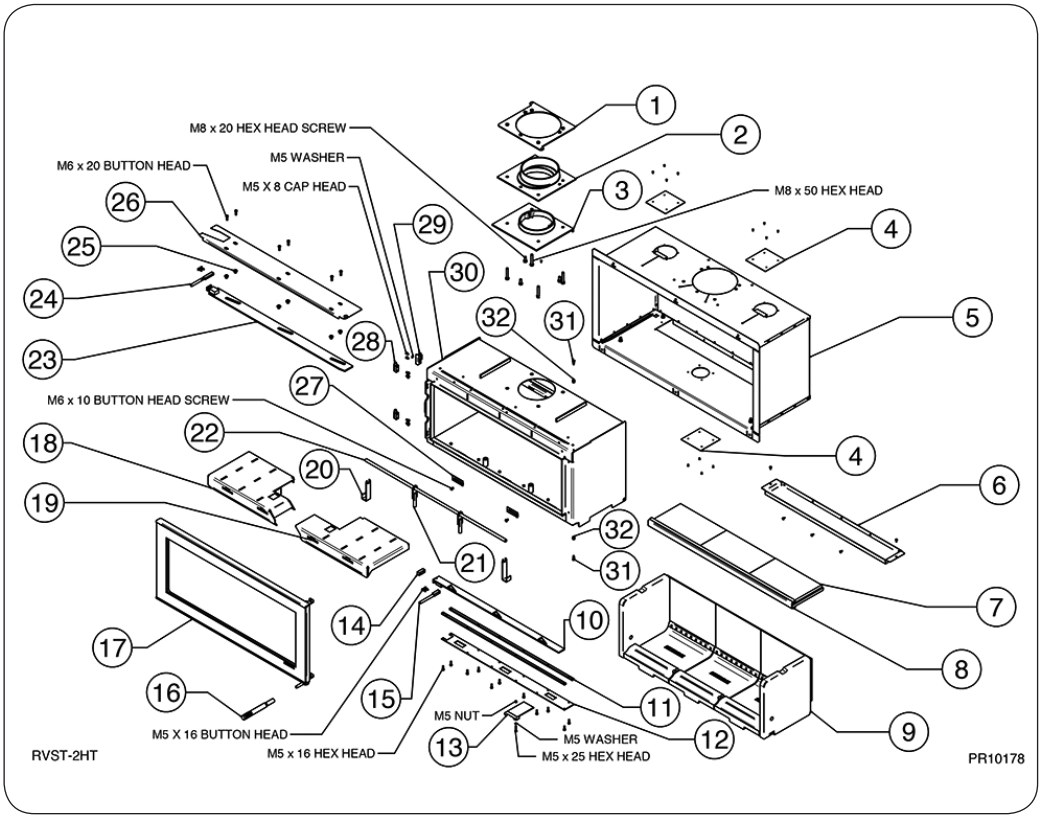


Ref. No.	Description
1	BASE CENTRE BRICK
2	BASE SIDE BRICK
3	REAR SIDE BRICK
4	REAR CENTRE BRICK
5	SIDE BRICK RIGHT HAND SIDE
6	SIDE BRICK LEFT HAND SIDE

Due to continual technical improvements please check online at www.stovax.com or with your Stovax retailer for the most up to date parts lists.

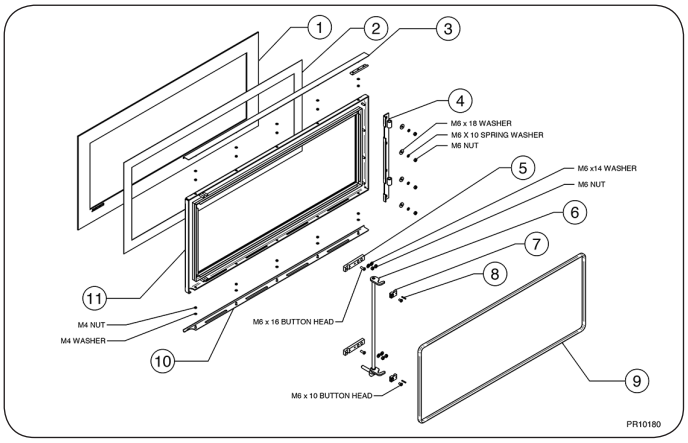
Basic Spare Parts

RVST-2HT RIVA STUDIO 2



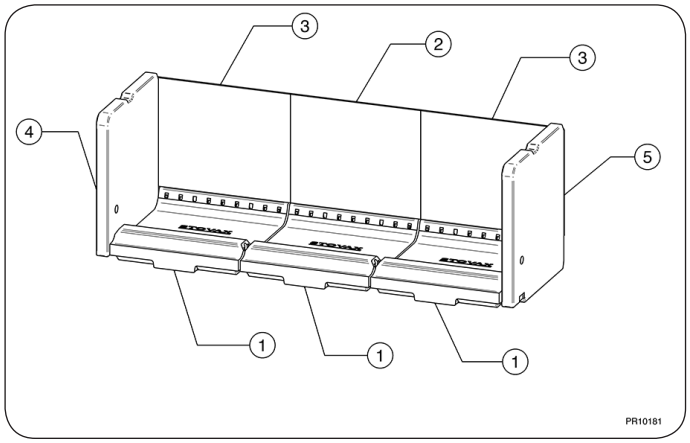
Ref. No.	Description
1	FLUE CLAMP PLATE ASSEMBLY
2	TOP COLLAR
3	LOWER COLLAR
4	CONVECTOR AIR COVER
5	OUTER BOX ASSEMBLY
6	FAN INFILL
7	BAFFLE BRICK
8	BRICK BAFFLE SUPPORT
9	BRICK ASSEMBLY
10	PRIMARY SLIDER
11	SPACER PLATE
12	PRIMARY PLATE
13	DATA PLATE MOUNT
14	PRIMARY SC KIT BRACKET
15	PRIMARY AIR HANDLE
16	TOOL HANDLE
17	DOOR ASSEMBLY
18	TOP BAFFLE LHS
19	TOP BAFFLE RHS
20	LOG GUARD END SUPPORT
21	LOG GUARD SUPPORT ASSEMBLY
22	LOG GUARD
23	AIRWASH SLIDER
24	AIRWASH HANDLE
25	AIRWASH SPACER
26	AIRWASH SLIDER COVER
27	SECONDARY AIR CONTROL SLIDER
28	HINGE BLOCK ASSEMBLY
29	AIRWASH SC KIT BRACKET ASSY
30	INNER BOX ASSEMBLY
31	CATCH ROLLER PIN
32	CATCH ROLLER

DOOR ASSEMBLY



Ref. No.	Description
1	STUDIO 2 DOOR GLASS
2	GLASS ROPE
3	TOP GLASS CLAMP ASSEMBLY
4	HINGE ASSEMBLY
5	LOWER CATCH BLOCK
6	DOOR CATCH ASSEMBLY
7	UPPER CATCH BLOCK
8	SPIROL PIN Ø3 X 18LG
9	DOOR ROPE
10	BOTTOM GLASS CLAMP
11	DOOR FRAME ASSEMBLY

BRICK ASSEMBLY

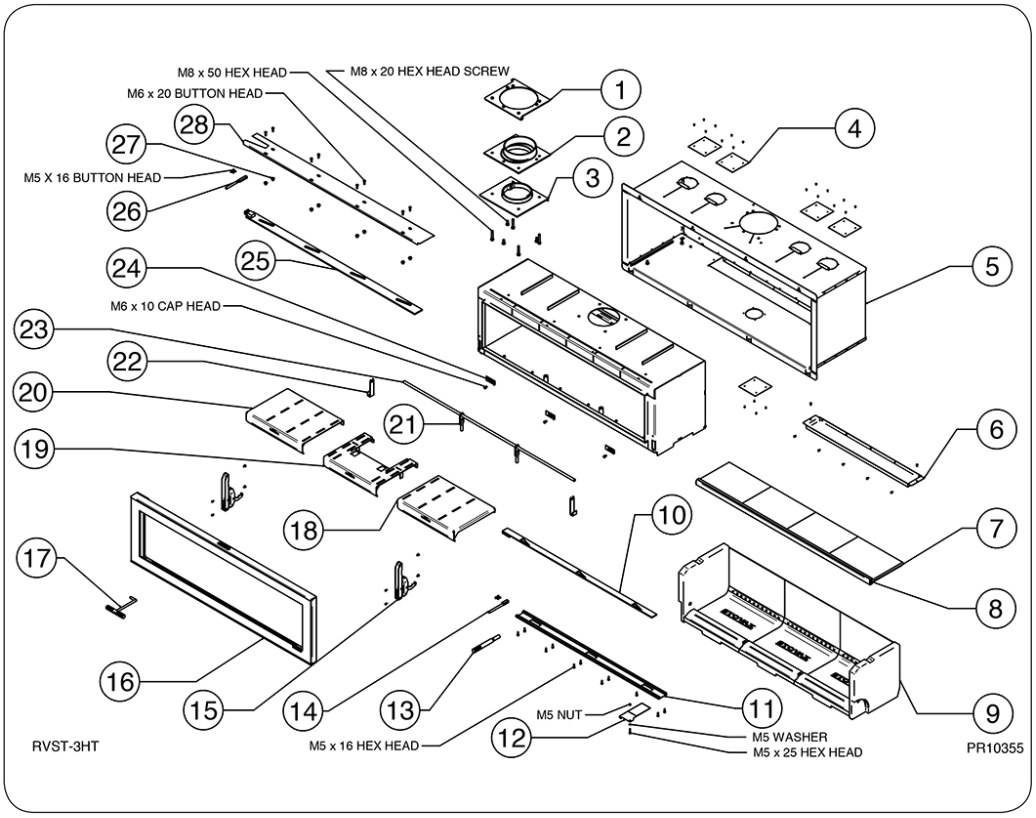


Ref. No.	Description
1	BASE BRICK
2	BACK BRICK
3	BACK BRICK SIDE
4	SIDE BRICK LEFT HAND SIDE
5	SIDE BRICK RIGHT HAND SIDE

Due to continual technical improvements please check online at www.stovax.com or with your Stovax retailer for the most up to date parts lists.

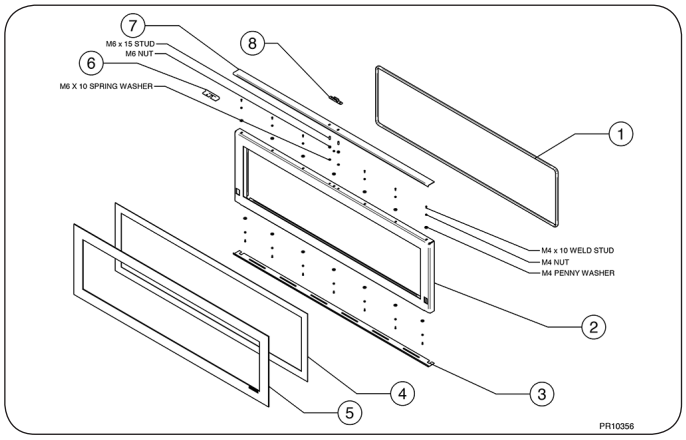
Basic Spare Parts

RVST-3HT RIVA STUDIO 3



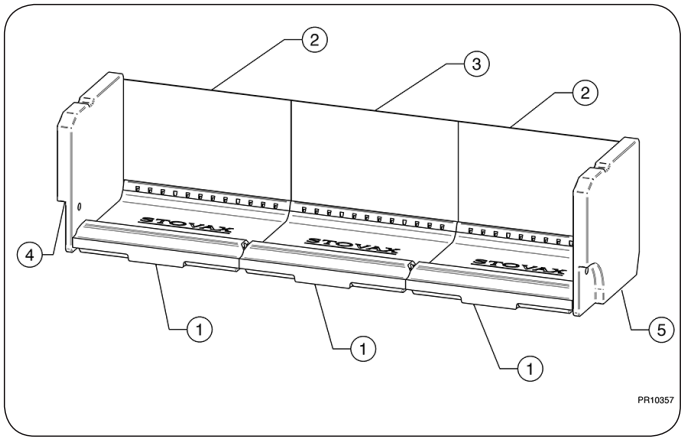
Ref. No.	Description
1	FLUE CLAMP ASSEMBLY PLATE
2	TOP COLLAR
3	LOWER COLLAR
4	CONVECTOR AIR COVER
5	OUTER BOX ASSEMBLY
6	FAN INFILL
7	BAFFLE BRICK
8	BAFFLE SUPPORT
9	BRICK ASSEMBLY
10	PRIMARY SLIDER
11	PRIMARY AIR SLIDER COVER ASSEMBLY
12	DATA PLATE MOUNT
13	TOOL HANDLE
14	PRIMARY AIR HANDLE
15	HINGE
16	DOOR ASSEMBLY
17	DOOR TOOL
18	BAFFLE RHS
19	CENTRE BAFFLE
20	BAFFLE LHS
21	LOG GUARD SUPPORT ASSEMBLY
22	LOG GUARD END SUPPORT
23	LOG GUARD
24	SECONDARY AIR CONTROL SLIDER
25	AIRWASH SLIDER
26	AIRWASH HANDLE
27	AIRWASH SPACER
28	AIRWASH SLIDER COVER

DOOR ASSEMBLY



Ref. No.	Description
1	DOOR ROPE
2	DOOR FRAME ASSEMBLY
3	BOTTOM GLASS CLAMP ASSEMBLY
4	GLASS ROPE
5	STUDIO 3 DOOR GLASS
6	HANDLE SUPPORT
7	TOP GLASS CLAMP
8	DOOR OPENING BLOCK

BRICK ASSEMBLY



Ref. No.	Description
1	BASE BRICK
2	REAR SIDE BRICK
3	REAR CENTRE BRICK
4	SIDE BRICK LEFT HAND SIDE
5	SIDE BRICK RIGHT HAND SIDE

Due to continual technical improvements please check online at www.stovax.com or with your Stovax retailer for the most up to date parts lists.

Service Records

1ST SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

2ND SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

3RD SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

4TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

5TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

6TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

7TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

8TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

9TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

10TH SERVICE
Date of Service:.....
Next Service Due:.....
Signed:.....
Dealer's Stamp/HETAS Registration Number

The Clean Air Act 1993 and Smoke Control Areas

Under the Clean Air Act local authorities may declare the whole or part of the district of the authority to be a smoke control area. It is an offence to emit smoke from a chimney of a building, from a furnace or from any fixed boiler if located in a designated smoke control area. It is also an offence to acquire an "unauthorised fuel" for use within a smoke control area unless it is used in an "exempt" appliance ("exempted" from the controls which generally apply in the smoke control area).

The Secretary of State for Environment, Food and Rural Affairs has powers under the Act to authorise smokeless fuels or exempt appliances for use in smoke control areas in England. In Scotland and Wales this power rests with Ministers in the devolved administrations for those countries. Separate legislation, the Clean Air (Northern Ireland) Order 1981, applies in Northern Ireland. Therefore it is a requirement that fuels burnt or obtained for use in smoke control areas have been "authorised" in Regulations and that appliances used to burn solid fuel in those areas (other than "authorised" fuels) have been exempted by an Order made and signed by the Secretary of State or Minister in the devolved administrations.
Further information on the requirements of the Clean Air Act can be found here: http://smokecontrol.defra.gov.uk/

Your local authority is responsible for implementing the Clean Air Act 1993 including designation and supervision of smoke control areas and you can contact them for details of Clean Air Act requirements"

These Riva Studio models (RVS-500/RVS-1/RVS-2) has been recommended as suitable for use in smoke control areas when burning dry wood logs when suitable permanent stops have been fitted and when operated in accordance with the manufacturer's instructions.

HETAS Approval

These appliances have been approved by HETAS as an intermittent operating appliance for burning dry seasoned wood logs only.

Recommended Fuels

Please note that HETAS Appliance Approval only covers the use of dry seasoned wood logs on these appliances. HETAS approval does not cover the use of other fuels either alone or mixed with the recommended fuels, nor does it cover instructions for the use of other fuels.

STOVAX

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E & O E